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# Commercial Fertilizers

By P. L. HIBBARD

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# COMMERCIAL FERTILIZERS

By P. L. HIBBARD.

This bulletin comprises the results of the fertilizer inspection work of the California Fertilizer Control for the fiscal year ending June 30, 1915.

## SUMMARY.

Fertilizers are made for the purpose of furnishing plant food. The farmer should buy such fertilizers as furnish the most plant food for the money, quality considered. Simple fertilizers furnish plant food cheaper than mixed complete fertilizers. One dollar's worth of a high-grade complete fertilizer furnishes plant food worth 88 cents. One dollar's worth of low-grade complete fertilizer furnishes plant food worth only 59 cents.

Some manufacturers uphold their guarantees better than others. By consulting this bulletin the farmer can learn which was most dependable last year, therefore most likely to be reliable in future.

A good degree of fineness is essential to a good fertilizer. The farmer will serve his own interests best by insisting on having finely ground fertilizers.

The law requires fertilizer packages to be properly labeled. If the consumer accepts improperly labeled goods, he may thereby lose the protection of the Fertilizer Control.

Selling fertilizers on basis of Station Analysis may be an advantage to both buyer and seller. Some manufacturers may abuse this privilege, in consequence the Fertilizer Control will refuse to make such analyses for such companies.

Fertilizer valuations are made for the purpose of affording a means of comparison of different brands. Properly used, they enable the farmer to buy at lowest cost that fertilizer which will best supply his needs. These valuations do not show what should be the selling price of fertilizers.

Less than two-fifths of the number of brands of fertilizers offered by the manufacturer are actually bought by farmers. The other three-fifths seem to be superfluous.

## Cost of Plant Food.

The purpose of a fertilizer is to furnish plant food. The farmer wishes to obtain his plant food at the lowest cost consistent with the desired quality. The costs of mixing, sacking, freighting, selling, etc., are the same whether a ton of fertilizer contains 200 or 600 pounds of plant food. Hence it is evident that 100 pounds of plant food in a

high-grade fertilizer will cost less than in a low-grade material on account of the smaller amount of valueless material which must be handled in the high-grade goods. A high-grade complete fertilizer may contain as much as 600 pounds of plant food in a ton, while some low-grade goods will not carry more than 200 pounds in one ton. Therefore it seems plain that the farmer serves himself best by buying only high-grade goods.

In this connection it is important to observe that where fertilizers are sold on the unit basis the buyer is much more likely to receive good value for his money than if the goods are sold by the ton. In the latter case, the farmer buys a ton of fertilizer which may consist of almost anything. But if he buys by the unit he pays for the number of pounds of nitrogen (N), phosphoric acid ( $P_2O_5$ ), or potash ( $K_2O$ ) shown to be present by analysis and the non-plant food, commonly known as "filler," is not taken into account. This statement is not literally correct, for it is usually true that the price per unit of plant food is lower in high-grade than in low-grade goods.

The following table has been prepared to show the variation in price of plant food in various kinds and grades of fertilizers. In every case it will be observed that *in complete fertilizers the higher the price per ton the lower is the cost per pound of plant food*, i. e., nitrogen, phosphoric acid, or potash. The table also shows the relative cost of plant food in the various "simples" as they are called; meaning the simple or primary substances of which complete fertilizers are composed, such as blood, superphosphate, sulfate of potash, each of which contains only one kind of plant food.

*Caution.* It is very necessary to realize that commercial cost of plant food and agricultural availability of this same plant food are not necessarily related and frequently have no connection with each other. Nitrogen in blood costs much more than in nitrate of soda, but is really less available as plant food; although on account of other effects of blood, nitrogen in that form may sometimes be agriculturally more desirable. Also a mixture, the cost of which comes chiefly from phosphoric acid, will sell much cheaper per ton than one with a high percentage of nitrogen, yet the former may be much more valuable to the farmer for certain crops and conditions.

The choice of the kind of plant food to be purchased should be based on a knowledge of the needs of the particular crop and soil to be treated. Only after this is decided should the cost of the fertilizer be considered, when the particular kind of fertilizer supplying the ingredient desired should be selected according to its agricultural availability and cost.

In order to show the advantage of buying high-grade goods the case may be stated as follows: One dollar buys 88 cents worth of plant food in a high-grade fertilizer, 76 cents worth in medium-grade and only 59 cents worth in low-grade goods. Or it may be said that the cost of placing a dollar's worth of plant food in the hands of the farmer is 12 cents for high-grade goods, 24 cents for medium-grade goods, and 41 cents in low-grade goods.

The figures used in compiling these tables are taken from records of sales actually made to farmers in California during 1913-14. The number of samples represented were 4, having a valuation over \$35.00 per ton, 34 between \$25.00 and \$35.00 per ton, and 18 sold for less than \$25.00 per ton.

It is a matter of record that tankage and sometimes other simples have been sold at prices below the Station valuation, so that if all sales were included in the tabulation the average selling price of nitrogen and phosphoric acid in tankage would be still closer to the Station valuation than those given in the table.

#### Average Cost of Plant Food in Various Materials.

Prices actually paid by farmers—

Organic nitrogen in bone meal	26.2¢ per lb.
Organic nitrogen in blood	25.5¢ per lb.
Organic nitrogen in tankage	24.1¢ per lb.
Organic nitrogen in fish tankage	22.7¢ per lb.
Organic nitrogen in complete fertilizer over \$35 per ton	24.9¢ per lb.
Organic nitrogen in complete fertilizer \$25 to \$35 per ton	29.9¢ per lb.
Organic nitrogen in complete fertilizer under \$25 per ton	38.2¢ per lb.
*Mineral nitrogen in complete fertilizer over \$35 per ton	Not found
*Mineral nitrogen in complete fertilizer \$25 to \$35 per ton	22.5¢ per lb.
*Mineral nitrogen in complete fertilizer under \$25 per ton	26.1¢ per lb.
*Mineral nitrogen in nitrate of lime	18.8¢ per lb.
*Mineral nitrogen in nitrate of soda	18.5¢ per lb.
*Mineral nitrogen in cyanamid	16.2¢ per lb.
*Mineral nitrogen in sulfate of ammonia	No data
Phosphoric acid in acid phosphate	6.0¢ per lb.
Phosphoric acid in bone meal	5.3¢ per lb.
Phosphoric acid in tankage	3.9¢ per lb.
Phosphoric acid in complete fertilizer over \$35 per ton	4.7¢ per lb.
Phosphoric acid in complete fertilizer \$25 to \$35 per ton	6.1¢ per lb.
Phosphoric acid in complete fertilizer under \$25 per ton	7.4¢ per lb.
Potash in sulfate of potash	6.1¢ per lb.
Potash in complete fertilizer over \$35 per ton	6.4¢ per lb.
Potash in complete fertilizer \$25 to \$35 per ton	7.7¢ per lb.
Potash in complete fertilizer under \$25 per ton	9.7¢ per lb.

\*Mineral nitrogen means nitrogen in form of nitrate, sulfate of ammonia or cyanamid.

Attention is particularly directed to the much lower cost of plant food in *high-grade* than in low-grade *complete fertilizers* as shown by the above table.

### Maintenance of Guarantees.

Every manufacturer is required by law to guarantee the percentage of nitrogen, phosphoric acid and potash in the fertilizers he sells. Owing to difficulties of sampling and analysis the law permits a minimum deficiency of 0.25% nitrogen, 1.00% phosphoric acid, 0.50% potash from the figures guaranteed. Greater deficiencies than these are regarded as infractions of the law, for which the manufacturer may be prosecuted and fined. Such deficiencies are indicated in the report of analyses in black face type.

Some manufacturers uphold their guarantees better than others. The following table is a condensed report of the deficiencies found in the main table of analyses. It summarizes the work done in this laboratory on each manufacturer's goods. The columns headed Deficiencies—per cent of possible, may be used for comparison of the various companies as to reliability or to probability of meeting their guarantees. The other columns are necessary to show how these figures were obtained. In cases where very few analyses are reported for a manufacturer, the figures should be taken with caution, as perhaps not properly representative. When several samples of one manufacturer's goods were analyzed the figures may be accepted as probably a fair indication of the reliability of his guarantee.

To illustrate, take the first name on the list. Of this company's goods 15 brands represented by 24 samples were analyzed. On these 24 samples there were 67 guarantees, of which 3 were deficient, or 4.5% of the whole. In valuation none were deficient. This shows that a deficiency in one constituent was balanced by an excess of another so that the buyer received full commercial value in every case as guaranteed by the manufacturer, although the plant food furnished was not exactly what was promised.

In general, manufacturers have more than maintained their guarantees, so that an average of all the analyses would show a substantial increase over the amount guaranteed.

This table is a condensed statement of the performances of each company during the fiscal year 1914–15; and as such may be an indication of what may be expected in the future. A manufacturer who maintained his guarantees well last year will probably do the same this next year.

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AND THE CALIFORNIA STATE BOARD OF EDUCATION

## Maintenance of Guarantees by Manufacturers.

Company	Number of brands sampled	Number of samples analyzed	Total number of guarantees on samples analyzed	Deficiencies		
				In guarantees	In valuation	Per cent of possible
Agricultural Chemical Works	15	24	67	3	4.5	1 4.1
American Agricultural Chemical Co.	8	21	59	1	1.7	0 0
American Pacific Whaling Co.	2	2	0			
Armour Fertilizer Works	19	126	227	28	12.3	16 12.7
California Fertilizer Works	6	15	40	8	20	2 13.3
Cudahy Packing Co.	1	14	2	0	0	0 0
Diamond Fertilizer Co.	3	9	27	10	37	4 4.4
Duff's Odorless Fertilizer Co.	1	1	3	1	*	1 *
General Fertilizer Association	16	22	58	16	27.6	2 9.1
Germain Seed and Plant Co.	1	1	3	1	*	1 *
Hauser Packing Co.	4	76	24	2	8.3	0 0
Hawaiian Fertilizer Co.	1	1	2	0	0	0 0
Los Angeles Fertilizer Co.	2	4	12	0	0	0 0
Mountain Copper Co.	6	7	13	0	0	0 0
Nitrate Agencies Co.	2	4	3	0	0	0 0
Oakland Meat and Packing Co.	1	1	2	0	0	0 0
Pacific Bone Coal and Fertilizing Co.	9	38	69	10	14.5	6 15.8
Pacific Coast Beef and Provision Co.	1	1	0			
Pacific Guano and Fertilizer Co.	5	8	14	0	0	0 0
Pacific Wood and Coal Co.	2	2	2	0	0	0 0
Redlands Fruit Association	1	1	1	0	0	0 0
San Antonio Meat Co.	1	2	2	0	0	0 0
Standard Fertilizer Co.	2	2	4	1	25	1 50
Swift & Co.	4	5	10	0	0	0 0
United States Phosphate Co.	2	3	3	0	0	0 0
Union Fertilizer Co.	6	21	61	2	3.3	6 0
Waterman Chemical Co.	2	2	6	0	0	0 0
Western Fertilizer Co.	1	1	3	0	0	0 0
Western Meat Co.	10	91	175	23	13.1	5 5.5

\*Figures omitted owing to possibility of causing misunderstanding.

## Mechanical Condition of Fertilizers.

A good degree of fineness is one of the essential qualities of a good fertilizer. It may be assumed as generally true that the finer the material the higher the availability, hence the consumer should insist on having finely ground fertilizers. Unfortunately some manufacturers are at times careless in regard to the fineness of their goods. The insistent demand of the consumer is the most effective means of correcting such carelessness.

Besides the low agricultural availability and the difficulty in applying coarse fertilizers it is almost impossible to obtain a satisfactorily representative sample of such goods for analysis. This is a prolific source of dissatisfaction and disagreement between buyers and sellers. During handling and transportation a coarsely ground tankage will separate so that the top of the sack contains the coarser materials, high in nitrogen, while the bottom contains the finer parts of bone, high in

phosphoric acid. A mixture of coarse bone meal with sulfate of potash will separate into coarse bone at the top and excess of potash at the bottom.

One of the chief reasons for the existence of the fertilizer manufacturer is that he is better prepared than the farmer to grind and mix the goods he sells, and the *farmer should insist that he do it well.*

#### **Caution in Regard to Labeling Fertilizer Packages.**

The law expressly states that every package of fertilizer shall be accompanied by a plainly printed label giving the brand name, analysis and source of the material in the package. This requirement is not satisfactorily met by some manufacturers and dealers. Farmers are hereby cautioned that if they buy improperly labeled fertilizer or goods not sold by regularly registered dealers or their authorized agents, they can not claim the protection afforded by the Fertilizer Control. Any dealer who does not observe the law is liable to prosecution and fine.

#### **Station Analyses.**

Commercial Fertilizers, Bulletin 179, p. 60, states that some farmers bought their fertilizer subject to settlement on the basis of Fertilizer Control analysis, and adds that this office "will be glad to render prompt service in the matter of such analysis."

The writer of that statement probably had no expectation that the practice thus begun would soon grow to the proportions it has reached this year. In this practice the financial interests of both buyer and seller are well and equally guarded, so there is no complaint from either. But out of this method of settlement has arisen another difficulty which now requires consideration.

It may be assumed that if the Fertilizer Control makes such analyses for one person it should make them for any other on demand, and so may be called upon to make them for all. There is no provision in the law for such analyses, and if the practice is followed to its logical end it removes from the manufacturer the need of giving a guarantee with any of his goods. The whole burden of determining their value is put upon the Fertilizer Control. The manufacturer may thus be relieved of considerable trouble and expense in analyzing his goods, while relying on the Fertilizer Control to safeguard the interests of the public. From the fact that the goods are not guaranteed it follows that each purchaser wants a station analysis, whereby the work of the Fertilizer Control is greatly and unnecessarily increased without gain to the fertilizer-using public. After the manufacturer has mixed and sampled a large batch of fertilizer, one analysis will serve for the whole lot. But when the batch is sold on the basis of Station Analysis

each of several consumers may request a separate analysis from the Fertilizer Control, which is thus overburdened with routine work without great advantage to any one. More than this, if selling on Station Analysis prevails, the consumer will have little assurance that he is getting the formula he asks for. He pays a prearranged price for such number of pounds of nitrogen, phosphoric acid, or potash as the analysis indicates he has received. But without a guaranteed analysis he may get more of one ingredient and less of another than he bargained for. He simply accepts what the dealer offers.

In view of these facts it seems hardly desirable that the privilege of selling on basis of Station Analysis should be unrestricted. In some cases it may be much to the advantage of both manufacturer and farmer, in which cases the Fertilizer Control may well grant the favor. But if no such considerable advantage is apparent, or if it appears that the manufacturer is using such privilege for the purpose of avoiding the chemical control which would otherwise be necessary in his own factory, then the Fertilizer Control will refuse to make such Station Analyses.

### Scope of Inspection.

During the year 562 samples of fertilizers and fertilizing materials have been received at the laboratory. Of this number 13 were sent by farmers under the two-dollar fee provision, 290 were taken by inspectors from purchasers' goods upon the request of the purchasers, and 202 were taken by inspectors from goods in the hands of agents and manufacturers. On 108 samples\* the analysis as reported was used as a basis of settlement by mutual agreement of buyer and seller. No guaranty was required or given with goods sold under such agreement. Fifty-seven samples of a miscellaneous nature are omitted from the tables.

The following classification may be made of samples reported in this bulletin :

Bat guano	7
Blood	74
Bone meal	38
Complete fertilizers	158
Garbage tankage	5
Nitrate of soda	11
Rock phosphate	4
Sulfate of ammonia	4
Sulfate of potash	7
Superphosphate	6
Tankage	191
	505

\*Besides these a considerable number of the remaining purchasers' analyses were doubtless used subsequently as a basis of settlement, but without being reported to this office.

### Deficiencies.

In the analyses of the above samples, the following number of deficiencies greater than allowed by law occurred:

Available phosphoric acid (total when available is not guaranteed) -----	47
Total nitrogen -----	47
Potash -----	12
In valuation -----	39

These deficiencies were found in 90 samples.

The fertilizer law allows a deficiency of 0.25 per cent in nitrogen, 0.50 per cent in potash, and 1 per cent in available phosphoric acid.

### Fertilizer Valuations.

The calculations of the commercial values of the fertilizers here reported are made on the so-called unit basis. Such calculations consist simply in multiplying the number of per cent of each ingredient by the price per unit and adding the products. The sum thus obtained is the commercial value per ton at the prices used. If it is desired to use such a calculation for determining the amount which should be paid for goods, or the rebate to which the buyer is entitled owing to the goods delivered being below the guaranty, it can only be satisfactorily done if a definite price per unit has been agreed upon between buyer and seller. But for the mere purpose of showing the relative values of goods to guaranties, it is not at all necessary that the prices adopted should be the exact market prices. Thus it is that the Fertilizer Control in attempting to show the relation between values found and values claimed, uses a schedule which is admittedly only an approximate average of market values. Owing to market fluctuation, differences in cost of delivery at different points, and other causes, the obtaining of true average market prices is an impossibility. But if the reader will bear in mind the true purpose of the valuations reported, these will have served their turn and he will not be led to assume that the Experiment Station is dictating the prices at which goods shall be sold. Valuations thus construed should serve two purposes.

- (a) To show whether a certain fertilizer is commercially worth its cost.
- (b) As a measure for comparing the commercial values of different brands, thus enabling the buyer to select that brand which will give him the greatest value for the money he spends.

## Schedule of Trade Values, 1915-16.

	Cents per pound	Value per unit
Nitrogen from blood-----	22.0	\$4 40
Nitrogen from tankage and bone-----	21.0	4 20
Nitrogen from ammonium sulfate-----	16.0	3 20
Nitrogen from nitrate of soda-----	16.0	3 20
Nitrogen from nitrate of lime-----	19.1	3 82
Phosphoric acid from tankage-----	3.5	70
Phosphoric acid from bone-----	4.5	90
Phosphoric acid from bone superphosphate-----	5.0	1 00
Available phosphoric acid from rock superphosphate-----	4.7	94
Phosphoric acid from Thomas phosphate powder-----	4.2	84
Potash from sulfate of potash*-----	10.0	2 00
Potash from muriate of potash*-----	10.0	2 00

The base prices from which the above schedule is deduced are obtained as follows:

Blood and tankage, Chicago market quotations and freight to Pacific coast terminals.

Sulfate of ammonia, California manufacturers' estimates.

Potash salts, New York quotations and differential freight rate (by sea) to California points.

Rock superphosphate, factory prices, San Francisco Bay, and freight to southern California points.

### Registered Manufacturers and Dealers.

The following manufacturers and dealers in commercial fertilizers have obtained certificates of registration under the provisions of the California Fertilizer Law, for the fiscal year beginning July 1, 1914. A list is also given of the brands of fertilizers and fertilizer materials offered for sale by them. According to the sworn returns of dealers registered for the fiscal year ending June 30, 1914, their entire sales in the State amounted to 39,471 tons. Incomplete returns for the year ending June 30, 1915, indicate approximately 32,000 tons.

No dealer or manufacturer, except those who have certificates of registration from the University of California, and their authorized agents, can legally sell fertilizers in this State. No person or company has any right to use any registration number except in connection with the firm name to which the registration certificate of such number has been issued; and no person or company to whom a registration number has been assigned has any right to give any other person or company permission to use said registration number, and any number so used is a fraud. No agent has any right to use his principal's registration number in connection with his own name.

The total number of brands registered by manufacturers was 353, of which 134 brands, equal to 38 per cent of the total, were found by

\*On account of the great fluctuations in the market the price of potash here given is purely arbitrary. It is double the ordinary price, but less than half present sale prices, which are likely to be very temporary.

inspectors and analyzed. Less than two-fifths of the brands registered are actually used by farmers. This perhaps indicates that the manufacturer hopes to increase sales by offering a variety of brands presumably suitable for every purpose, and that the farmer finds three-fifths of them unnecessary.

**Agricultural Chemical Works, Los Angeles, Cal.**

**Registration No. 8.**

Bat Guano.	Olive.
Blood.	Potato and Apricot.
Bone Meal.	Prune and Peach.
Brands A, B, C, F, G, H, K, L, M, N.	Sulfate of Ammonia.
Fish Guano.	Sulfate of Potash.
Grape and Berry.	Summer A, B, and C.
Gypsum.	Superphosphate.
Lawn and Rose.	Tankage.
Muriate of Potash.	Vegetable.
Nitrate of Soda.	Walnut and Almond.

Special mixtures to order of consumers.

**American Agricultural Chemical Co., California Works, Los Angeles, Cal.**

**Registration No. 1.**

Acid Phosphate.	Bradley's Orange and Lemon.
Blood.	Bradley's Special Fruit and Vine.
Bradley's California Vegetable.	Bradley's Special Nursery Stock.
Bradley's Fruit and Vine.	Bradley's Tree and Vine.
Bradley's Hay and Grain No. 1.	Nitrate of Soda.
Bradley's Hay and Grain No. 2.	Raw Mineral Phosphate Rock.
Bradley's Lawn.	Sulfate of Ammonia.
Bradley's Lemon Tree.	Sulfate of Potash.
Bradley's Nursery Stock.	Tankage.

Special brands to order.

**American Pacific Whaling Co., Los Angeles, Cal.**

**Registration No. 80.**

Whale Bone Meal.	Whale Meat and Blood.
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**Armour Fertilizer Works, Los Angeles, Cal.**

**Registration No. 7.**

Alfalfa Special.	Lawn Special.
Armour's A, B, and C.	Nitrate of Soda.
Bean Grower.	Olive Special.
Blood.	Orange Tree Manure.
Bone, Blood and Potash.	Sheep Manure.
Bone Meal.	Special 2-12-8.
Cotton Seed Meal.	Special 2-17-10.
Crop Maker.	Superphosphate.
Deciduous Tree Special.	Sulfate of Ammonia.
Flower and Fern.	Sulfate of Potash.
Fruit and Vine.	Tankage.
Fruit Special.	Vegetable Grower.
Guano.	Walnut Special.
Lawn and Garden.	Special brands to order of consumers.

**California Fertilizer Works, San Francisco, Cal.**

Registration No. 3.

Bone, Blood Meal.	Special Nursery Fertilizer.
Bone, Blood, Superphosphate.	Special Orange and Lemon Fertilizer.
Fruit and Vine Fertilizer.	Special Orange Tree Fertilizer.
Fruit, Orange and Vine Fertilizer.	Special Phosphate and Potash Fertilizer.
Orange Tree B Fertilizer.	Special with Sulfate of Iron Fertilizer.
Peach Fertilizer.	Truck and Berry Fertilizer.

**Cudahy Packing Co., Los Angeles, Cal.**

Registration No. 79.

Cudahy's Blood, Tankage and Bone Fertilizer.	Cudahy's High Grade Tankage.
Cudahy's High Grade Ground Dried Blood.	Cudahy's Pure Bone Meal.
	Cudahy's Special Lawn Fertilizer.

**Diamond Fertilizer Co., Los Angeles, Cal.**

Registration No. 77.

Bat Guano.	Manure, Chicken.
Bean Straw, Baled.	Manure, Goat (ground).
Blood.	Manure, Goat (unground).
Bone.	Manure, Pigeon.
Cotton Seed Meal.	Manure, Sheep (ground).
Diamond A, B, and C, Fall Brand.	Manure, Sheep (unground).
Diamond A, B, and C, Spring Brand.	Nitrate of Lime.
Diamond Lawn and Garden Fertilizer.	Nitrate of Soda.
Diamond Olive Special.	Sulfate of Potash.
Diamond Special Lawn Fertilizer.	Superphosphate.
Diamond Walnut Special.	Tankage.
Fish Tankage.	Whale Blood (ground).
Gypsum.	Whale Bone (ground).
Lime (air slacked).	Special mixtures to order.

**Duff's Odorless Fertilizer Co., Glendale, Cal.**

Registration No. 58.

Duff's Odorless Fertilizer No. 1.	Duff's Odorless Fertilizer No. 2.
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**Federal Chemical Co., Los Angeles, Cal.**

Registration No. 63.

Special Mixtures.

**General Fertilizer Assn., San Bernardino, Cal.**

Registration No. 42.

G. F. A. No. 3.	G F. A. No. 8.
G. F. A. No. 4.	G. F. A. Special.
G. F. A. No. 5.	G. F. A. Special No. 2.
G. F. A. No. 6.	Orange and Lemon No. 1.

Special mixtures to order of consumers.

**Germain Seed and Plant Co., Los Angeles, Cal.**

Registration No. 76.

Nuvida Lawn and Garden Fertilizer.	Nuvida Orange Fertilizer.
Nuvida Nursery Stock Fertilizer.	Nuvida Vegetable Fertilizer.

**Hauser Packing Co., Los Angeles, Cal.**

Registration No. 33.

Big Gun.	Manure, Sheep (ground).
Dried Blood.	Nitrate of Soda.
High Grade Tankage.	Raw Bone Meal.
Low Grade Tankage.	Steam Bone Meal.
Manure, Cow.	Sulfate of Potash.
Manure, Stable.	Special mixtures to order of consumers.

**Hawaiian Fertilizer Co., Ltd., San Francisco, Cal.**

Registration No. 19.

Bone Meal.	Nitrate of Lime.
Double Manure Salts.	Nitrate of Soda.
Dry Ground Blood.	Nursery.
Fish Guano.	Orange and Lemon.
Fruit and Vine.	Rape Seed Meal.
Grain A.	Sulfate of Ammonia.
Grain B.	Sulfate of Potash.
Kainit.	Superphosphate.
Lawn.	Tankage.
Lime Nitrogen.	Thomas Phosphate Powder.
Muriate of Potash.	Vegetable.
	Whale Guano.

**Thomas Lewis, Sacramento, Cal.**

Registration No. 40.

Tom Lewis Bone Meal.	Tom Lewis Fertilizer No. 2.
	Tom Lewis Star Brand Fertilizer.

**Los Angeles Fertilizer Co., Los Angeles, Cal.**

Registration No. 38.

Three Queens Animal Bone and Potash.	Three Queens Nitrate of Soda.
Three Queens Emerson's Olive Special.	Three Queens Odorless.
Three Queens Emerson's Fall Special.	Three Queens Orangeaid.
Three Queens Emerson's Summer Special.	Three Queens Special Fruitgrower.
Three Queens Emerson's Walnut Special.	Three Queens Spring Special.
Three Queens Fruitgrower.	Three Queens Superphosphate.
Three Queens Fruitmore.	Three Queens Sulfate of Potash.
Three Queens Garden and Lawn.	Three Queens T. and P.
Three Queens L. A. Bone Meal.	Three Queens Tankage.
	Special mixtures to order of consumers.

**Leo T. Mizuo, Los Angeles, Cal.**

Registration No. 82.

Bird Guano.	Whale Bone.
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**Mountain Copper Co., San Francisco, Cal.**

Registration No. 28.

Mococo Superphosphate 0-17-0.	Mococo 4-10-4.
Mococo Superphosphate 0-20-0.	Mococo 4.1-10-1.5.
Mococo 0-14-9.	Nitrate of Soda.
Mococo 3-10-2.	Sulfate of Potash.
Mococo 3-10-5.	

Special mixtures to order of consumers.

**Nitrate Agencies Co., Los Angeles, Cal.**

Registration No. 45.

Nitrate of Soda.

Potash.

Superphosphate.

**North American Mercantile Co., Inc., San Francisco, Cal.**

Registration No. 61.

Domoto Fertilizer.

Rape Seed Meal.

Domoto Plant Food.

Soy Bean Meal.

**Oakland Meat and Packing Co., Emeryville, Cal.**

Registration No. 24.

"Special."

**Pacific Bone Coal and Fertilizing Co., San Francisco, Cal.**

Registration No. 14.

Arborette Brand.

Lucerna.

Bone Meal.

Lupine Brand.

Ceres Brand No. 1.

Lupine Brand No. 2.

Ceres Brand No. 2.

Merino Brand.

Ceres Brand No. 3.

Nitrate of Soda.

Citrona Brand No. 1.

Pomona Brand.

Citrona Brand No. 2.

Pomona Brand No. 1.

Citrona Brand No. 3.

Pomona Brand No. 2.

Citrona Brand No. 4.

Potash Salts.

Flora Brand.

Superphosphate.

Lime Nitrogen.

Tankage.

Special formulas.

**Pacific Coast Beef and Provision Co., Los Angeles, Cal.**

Registration No. 64.

Bone Meal.

Dried Blood.

Tankage.

**Pacific Guano and Fertilizer Co., San Francisco, Cal.**

Registration No. 4.

Bat Guano.

Brand S.

Blood.

Brand TRK.

Bone Meal.

Brand VGR.

Brand AJX.

Brand XLT.

Brand CJV.

Kainit.

Brand F&amp;V.

Muriate of Potash.

Brand GG.

Nitrate of Soda.

Brand HOP.

Sulfate of Ammonia.

Brand IXL.

Sulfate of Potash.

Brand N.

Superphosphate, Cresco.

Brand OK.

Superphosphate, Pacific.

Brand PNK.

Tankage.

Brand PP.

Special mixtures to order of consumers.

**Pacific Wood and Coal Co., San Diego, Cal.**

Registration No. 53.

Diamond BG Complete.

Diamond BG Tree Tonic.

Diamond BG Lawn.

Nitrate of Soda.

Diamond BG Soil Regulator.

Phosphoric Acid.

Sulfate of Potash.

**Pioneer Fish Reduction Co., San Diego, Cal.**

Registration No. 81.  
Fish Meal Fertilizer.

**Redlands Fruit Association, Redlands, Cal.**

Registration No. 34.

Blood, Fish.	Nitrate of Soda.
Blood, Beef.	Salmon Scrap.
Bone, Fish.	Superphosphate.
Nitrate of Lime.	Tankage.

**San Antonio Meat Co., Pomona, Cal.**

Registration No. 69.  
Bone Meal.

Tankage.

**Standard Fertilizer Co., Los Angeles, Cal.**

Registration No. 60.

Blood.	Standard No. 3.
Fish Scrap.	Standard No. 4.
Green Bone.	Standard No. 5.
Special.	Standard No. 6.
Standard No. 1.	Standard No. 7.
Standard No. 2.	Tankage.

**Standard Rendering Co., Kansas City, Kan.**

Registration No. 44.

Standard Bone.	Standard Two.
Standard Concentrated.	Standard Three.
Standard One.	Standard Four.

**Swift & Co., Chicago, Ill.**

Registration No. 5.

Swift's Diamond "C."	Swift's Diamond "L."
Swift's Diamond "D."	Swift's High Grade Blood.
Swift's Diamond "E."	Swift's High Grade Tankage.
Swift's Diamond "K."	Swift's Special Bone Meal.

**Union Fertilizer Co., Los Angeles, Cal.**

Registration No. 9.

Blood.	Potato.
Bone Meal.	Special Fruiting Fertilizer.
Fish Scrap.	Sugar Beet.
Fruiting Fertilizer.	Sulfate of Potash.
Guano.	Superphosphate.
Nitrate of Lime.	Tankage.
Nitrate of Soda.	Vegetable.
Nursery Fertilizer.	Walnut.
Phosphate Rock (ground).	Special fertilizer to order.

**Union Superphosphate Co., San Francisco, Cal.**

Registration No. 31.

Superphosphate, Cresco.	Superphosphate, Pacific.
	Superphosphate, Union.

**United Guano and Fertilizer Works, Los Angeles, Cal.**

Registration No. 73.

Bat Guano.	Bone Meal.
Bird Guano.	Blood.
	Tankage.

**United States Phosphate Co., Salt Lake City, Utah.****HORACE DUNBAR, Agent, 405 Marsh-Strong Bldg., Los Angeles.**

Registration No. 78.

Fine Ground Raw Rock Phosphate.

**J. M. Waterman Chemical Co., Los Angeles, Cal.**

Registration No. 75.

Special mixtures to order.

**Western Fertilizer Co., San Francisco, Cal.**

Registration No. 68.

Wizard (Bat Brand).

**Western Meat Co., San Francisco, Cal.**

Registration No. 11.

Gold Bear Blood "H."	Gold Bear "M."
Gold Bear Diamond "A."	Gold Bear "O."
Gold Bear Diamond "B."	Gold Bear Putting Green.
Gold Bear Diamond "C."	Gold Bear "R."
Gold Bear Diamond "D."	Gold Bear Raw Bone "F."
Gold Bear Diamond "E."	Gold Bear "S."
Gold Bear "I."	Gold Bear Steamed Bone "G."
Gold Bear "K."	Nitrate.
Gold Bear "L."	Odorless Lawn Dressing.
Gold Bear Lemon Special.	Sulfate of Potash.
	Superphosphate.

(See page 104 for explanation of Tables of Analyses following.)

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.

<b>Agricultural Chemical Works, Los Angeles, Cal.</b>		
5590	"A" -----	Gowan and Willard, Santa Ana----- 27.53
5698	"A" -----	J. M. Webster, Upland----- 28.01
5889	"A" ----- <i>Guaranteed</i>	Erasmus Wilson, Los Angeles----- 28.17 ----- 25.72
5696	"B" ----- <i>Guaranteed</i>	J. M. Webster, Upland----- 28.77 ----- 28.96
5631	Blood ----- <i>Guaranteed</i>	W. H. Collins, Covina----- 67.85 ----- 66.96
5613*	Bone Meal ----- <i>Guaranteed</i>	Union Com. Co., Santa Barbara----- 32.69 ----- 28.70
5630	"C" ----- <i>Guaranteed</i>	W. H. Collins, Covina----- 33.74 ----- 32.08
5591	"F" -----	Gowan and Willard, Santa Ana----- 25.88
5706	"F" ----- <i>Guaranteed</i>	J. D. McClenney, Pomona----- 23.87 ----- 23.76
5702	"G" ----- <i>Guaranteed</i>	J. D. McClenney, Pomona----- 24.33 ----- 23.24
5705	"H" ----- <i>Guaranteed</i>	J. D. McClenney, Pomona----- 25.50 ----- 24.40
5592	"K" ----- <i>Guaranteed</i>	Gowan and Willard, Santa Ana----- 27.97 ----- 26.36
5700	"L" -----	J. M. Webster, Upland----- 28.86
5704	"L" ----- <i>Guaranteed</i>	J. D. McClenney, Pomona----- 27.72 ----- 26.72
5617	Lawn -----	Thos. Chisholm, Pasadena----- 22.89
5619	Lawn ----- <i>Guaranteed</i>	Campbell Seed Store, Pasadena----- 23.71 ----- 22.50
5593	"N" -----	Gowan and Willard, Santa Ana----- 35.13
5699	"N" ----- <i>Guaranteed</i>	J. M. Webster, Upland----- 34.24 ----- 34.24
5511	Special ----- <i>Guaranteed</i>	C. L. Nye, Riverside----- 37.70 ----- 37.04
6032	Special ----- <i>Guaranteed</i>	H. L. Hostetler, Covina----- 34.10 ----- 34.00
5609	Summer A -----	East Highlands Imp. Co., Los Angeles----- 24.43
5697	Summer A ----- <i>Guaranteed</i>	J. M. Webster, Upland----- 25.32 ----- 24.10
5703*	Tankage ----- <i>Guaranteed</i>	J. D. McClenney, Pomona----- 31.11 ----- 33.26
5868*	Tankage ----- <i>Guaranteed</i>	Homer Stephenson, Riverside----- 38.83 ----- 37.18

Laboratory Number	PHOSPHORIC ACID				NITROGEN				POTASH			CHLORIN
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total	
5590	6.15	2.60	8.75	-----	0.60	-----	3.23	-----	3.83	2.22	2.22	----
5698	5.40	2.50	7.90	-----	0.75	-----	3.33	-----	4.08	3.37	3.37	0.72
5889	5.98	1.92	7.90	-----	0.90	-----	3.23	-----	4.13	3.48	3.48	0.95
----	5.00	3.00	8.00	Bn. Super, T.	2.00	-----	2.00	Bat, G, Bl, Bn	4.00	3.00	3.00	----
5696	4.46	4.54	9.00	-----	1.47	1.03	2.42	-----	4.92	1.90	1.90	----
----	4.00	4.00	8.00	Bn. Super. T.	2.00	-----	3.00	Bat, G, Bl, Bn	5.00	2.00	2.00	----
5631	----	----	----	-----	----	----	13.68	-----	13.68	----	----	----
----	----	----	26.50	-----	----	----	13.50	-----	13.50	----	----	----
5613	----	----	27.00	-----	----	----	2.01	-----	2.01	----	----	----
----	----	----	27.00	-----	----	----	1.00	-----	1.00	----	----	----
5630	5.59	3.06	8.65	-----	1.88	-----	3.95	-----	5.83	2.34	2.34	0.70
----	4.00	4.00	8.00	Super, T	3.00	-----	3.00	Bat, G, Bl, Bn	6.00	2.00	2.00	----
5591	5.69	2.76	8.45	-----	0.66	-----	2.58	-----	3.24	4.19	4.19	0.78
5706	5.45	3.70	9.15	-----	1.02	-----	1.82	-----	2.84	3.83	3.83	----
----	6.00	2.00	8.00	Super, T	1.00	-----	2.00	Bat, G, Bl, Bn	3.00	4.00	4.00	----
5702	6.26	4.74	11.00	-----	1.06	-----	1.94	-----	3.00	2.23	2.23	----
----	6.00	4.00	10.00	Bn, Super, T.	1.00	-----	2.00	Bat, G, Bl, Bn	3.00	2.00	2.00	----
5705	5.39	5.06	10.45	-----	1.06	-----	2.20	-----	3.26	2.68	2.68	----
----	6.00	4.00	10.00	Bn, Super, T.	1.00	-----	2.00	-----	3.00	3.00	3.00	----
5592	6.90	2.90	9.80	-----	1.52	-----	2.66	-----	4.18	2.33	2.33	0.90
----	6.00	4.00	10.00	Bn, Super, T.	2.00	-----	2.00	Bat, G, Bl, Bn	4.00	2.00	2.00	----
5700	5.07	4.78	9.85	-----	0.36	-----	2.80	-----	3.16	5.65	5.65	0.62
5704	5.76	5.04	10.80	-----	0.99	-----	2.14	-----	3.13	4.74	4.74	----
----	5.00	5.00	10.00	Bn. Super, T.	1.00	-----	2.00	Bat, G, Bl, Bn	3.00	5.00	5.00	----
5617	5.52	5.08	10.60	-----	0.47	-----	2.05	-----	2.52	-----	2.87	0.62
5619	5.55	5.00	10.55	-----	0.48	-----	2.21	-----	2.69	-----	2.99	----
----	5.00	5.00	10.00	Bn, Super, T.	-----	-----	2.50	Bat, G, Bl, Bn	2.50	-----	2.50	----
5593	7.56	2.84	10.40	-----	1.72	-----	3.23	-----	4.95	5.34	5.34	0.80
5699	6.18	4.52	10.70	-----	2.32	-----	2.47	-----	4.79	5.61	5.61	0.80
----	5.00	5.00	10.00	Bn, Super, T.	2.00	-----	3.00	Bat, G, Bl, Bn	5.00	5.00	5.00	----
5511	8.00	9.50	17.50	-----	0.61	-----	3.19	-----	3.80	5.18	5.18	----
----	-----	-----	18.00	Bn, Super, T.	2.00	-----	2.00	Bat, G, Bl, Bn	4.00	5.00	5.00	----
6032	5.24	3.16	8.40	-----	1.33	-----	4.52	-----	5.85	2.17	2.17	0.67
----	4.00	4.00	8.00	Bn, Super, T.	1.50	-----	4.50	Bat, G, Bl, Bn	6.00	2.00	2.00	----
5609	6.86	6.04	12.90	-----	-----	-----	1.79	-----	1.79	4.26	4.26	----
5697	9.05	4.00	13.05	-----	-----	-----	1.68	-----	1.68	5.33	5.33	0.75
----	7.00	6.00	13.00	Bn, Super, T.	-----	-----	1.50	Bat, G, Bl, Bn	1.50	5.00	5.00	----
5703	-----	-----	13.75	-----	-----	-----	4.82	-----	4.82	-----	-----	----
----	-----	-----	13.50	-----	-----	-----	5.35	-----	5.35	-----	-----	----
5868	-----	-----	7.75	-----	-----	-----	2.63	5.68	-----	8.31	-----	-----
----	-----	-----	8.00	-----	-----	-----	3.00	5.00	-----	8.00	-----	-----

\*5703—74% fine.

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**American Agricultural Chemical Co., Los Angeles, Cal.**

5734	Acid Phosphate -----	Pacific Wood & Coal Co., San Diego--	16.52
	Guaranteed -----		15.04
5560	Bradley's California Vegetable	G. L. Winterbotham, Riverside-----	25.63
5637	Bradley's California Vegetable	M. R. Williams, Monrovia-----	25.76
5724	Bradley's California Vegetable	Pacific Wood & Coal Co., San Diego--	26.02
	Guaranteed -----		24.07
5561	Bradley's Grain No. 2-----	G. L. Winterbotham, Riverside-----	19.78
	Guaranteed -----		19.28
5505	Bradley's Lawn -----	Aggeler & Musser Seed Co., Los Ang.	26.17
5555	Bradley's Lawn -----	E. M. Cope Com. Co., Redlands-----	26.05
5562	Bradley's Lawn -----	G. L. Winterbotham, Riverside-----	26.39
5618	Bradley's Lawn -----	L. M. Jacobs Co., Pasadena-----	25.55
5721	Bradley's Lawn -----	Pacific Wood & Coal Co., San Diego--	26.63
5722	Bradley's Lawn -----	Pacific Wood & Coal Co., San Diego--	26.23
	Guaranteed -----		24.83
5720	Bradley's Lemon Tree-----	Pacific Wood & Coal Co., San Diego--	26.72
	Guaranteed -----		24.83
5504	Bradley's Nursery Stock-----	R. H. Hille, San Fernando-----	26.44
5556	Bradley's Nursery Stock-----	E. M. Cope Com. Co., Redlands-----	25.87
5585	Bradley's Nursery Stock-----	W. S. Fenton, Ontario-----	25.33
5629	Bradley's Nursery Stock-----	F. E. Dudderar, Covina-----	26.30
	Guaranteed -----		24.83
5554	Bradley's Orange and Lemon--	E. M. Cope Com. Co., Redlands-----	25.63
5638	Bradley's Orange and Lemon--	M. R. Williams, Monrovia-----	23.82
5723	Bradley's Orange and Lemon--	Pacific Wood & Coal Co., San Diego--	24.28
5739	Bradley's Orange and Lemon--	J. B. Ferguson, Escondido-----	26.92
	Guaranteed -----		24.16
5731*	Mineral Phosphate -----	Pacific Wood & Coal Co., San Diego--	----
	Guaranteed -----		----

**American Pacific Whaling Co., Los Angeles, Cal.**

5869*	Fish Scrap -----	S. L. Herrick, Riverside-----	----
	Sold on Station Analysis.		----
5979*	Whale Tankage -----	Tustin Lemon Assn., Tustin-----	----

**Armour Fertilizer Works, Los Angeles, Cal.**

5962	Bat Guano -----	D. B. Lee, Ontario-----	49.82
	Guaranteed -----		55.45
5983	Bat Guano -----	A. M. Seeley, Covina-----	70.72
	Guaranteed -----		76.79
5546	Blood -----	A. M. Seeley, Covina-----	71.03
5782	Blood -----	Ernest Brooks, Claremont-----	69.09
5800	Blood -----	E. F. Wilson, Upland-----	69.19
5817	Blood -----	A. M. Seeley, Covina-----	70.68

\*5731—66% through 100 mesh.

\*5869—52% fine.

Laboratory Number	PHOSPHORIC ACID					NITROGEN					POTASH			CHLORIN
	Available	Insoluble	Total	Guaranteed as derived from		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total		
5734	17.57	0.28	17.85	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
---	16.00	-----	-----	-----	-----	2.00	0.72	0.83	-----	3.55	4.33	4.33	-----	-----
5560	7.92	1.48	9.40	-----	-----	1.91	0.67	0.95	-----	3.53	4.40	4.40	-----	-----
5637	8.11	1.24	9.35	-----	-----	1.90	0.75	0.95	-----	3.60	4.43	4.43	-----	-----
5724	7.81	1.54	9.35	-----	-----	1.90	0.60	0.80	Bat, G, Bl, Bn, T	3.30	4.00	4.00	-----	-----
---	8.00	1.00	9.00	Bn, Super	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5561	7.63	1.22	8.85	-----	-----	1.36	0.44	0.84	-----	2.64	2.15	2.15	-----	-----
---	8.00	1.00	9.00	Bn, Super	-----	1.26	0.31	0.90	Bat, G, Bl, Bn, T	2.47	2.00	2.00	-----	-----
5505	9.06	1.04	10.10	-----	-----	2.22	0.75	1.23	-----	4.20	2.06	2.06	-----	-----
5555	9.25	1.40	10.65	-----	-----	2.50	0.68	1.06	-----	4.24	1.61	1.61	-----	-----
5562	8.70	1.40	10.10	-----	-----	2.51	0.78	1.14	-----	4.43	1.73	1.73	0.60	-----
5618	8.82	0.98	9.80	-----	-----	2.24	0.76	1.16	-----	4.16	1.94	1.94	-----	-----
5721	8.77	1.68	10.45	-----	-----	2.43	0.84	1.06	-----	4.33	2.02	2.02	0.67	-----
5722	8.14	1.96	10.10	-----	-----	2.47	0.78	1.06	-----	4.31	2.00	2.00	-----	-----
---	9.00	1.00	10.00	Bn, Super	-----	2.35	0.75	1.00	Bat, G, Bl, Bn, T	4.10	1.50	1.50	-----	-----
5720	8.99	1.36	10.35	-----	-----	2.60	0.84	0.97	-----	4.41	2.06	2.06	-----	-----
---	9.00	1.00	10.00	Bn, Super,	-----	2.35	0.75	1.00	Bat, G, Bl, Bn, T	4.10	1.50	1.50	-----	-----
5504	8.78	1.72	10.50	-----	-----	2.48	0.77	1.15	-----	4.40	1.53	1.53	-----	-----
5556	9.26	0.94	10.20	-----	-----	2.38	0.66	1.15	-----	4.19	1.84	1.84	-----	-----
5585	8.64	1.26	9.90	-----	-----	2.20	0.70	1.19	-----	4.09	1.83	1.83	-----	-----
5629	8.55	1.60	10.15	-----	-----	2.46	0.82	1.06	-----	4.34	1.94	1.94	-----	-----
---	9.00	1.00	10.00	Bn, Super	-----	2.35	0.75	1.00	Bat, G, Bl, Bn, T	4.10	1.50	1.50	-----	-----
5554	7.76	1.84	9.60	-----	-----	2.73	-----	1.05	-----	3.78	3.32	3.32	-----	-----
5638	7.98	1.42	9.40	-----	-----	1.93	0.59	0.96	-----	3.48	2.81	2.81	-----	-----
5723	7.84	1.36	9.20	-----	-----	2.12	0.65	0.83	-----	3.60	3.18	3.18	-----	-----
5739	8.12	1.63	9.75	-----	-----	2.13	0.75	1.24	-----	4.12	3.18	3.18	-----	-----
---	8.00	1.00	9.00	Bn, Super	-----	2.20	0.70	0.80	Bat, G, Bl, Bn, T	3.70	3.00	3.00	-----	-----
5731	-----	-----	31.60	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
---	-----	-----	33.00	Min. Phos.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5869	-----	-----	8.60	-----	-----	-----	-----	8.51	-----	8.51	-----	-----	-----	-----
5979	-----	-----	1.10	-----	-----	-----	-----	10.34	-----	10.34	-----	-----	-----	-----
5962	-----	-----	6.65	-----	-----	0.36	1.64	7.82	-----	9.82	-----	2.72	-----	-----
---	-----	-----	7.37	-----	-----	-----	-----	10.20	-----	10.20	-----	3.39	-----	-----
5983	-----	-----	3.45	-----	-----	0.34	0.94	14.02	-----	15.30	-----	1.65	-----	-----
---	-----	-----	3.64	-----	-----	-----	-----	16.23	-----	16.23	-----	1.81	-----	-----
5546	-----	-----	-----	-----	-----	-----	-----	14.32	-----	14.32	-----	-----	-----	-----
5782	-----	-----	-----	-----	-----	-----	-----	13.93	-----	13.93	-----	-----	-----	-----
5800	-----	-----	-----	-----	-----	-----	-----	13.95	-----	13.95	-----	-----	-----	-----
5817	-----	-----	-----	-----	-----	-----	-----	14.25	-----	14.25	-----	-----	-----	-----

\*5979—60% fine. No guaranteed analysis. In violation of the California Fertilizer Act.  
4—18683

NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

FROM WHOM OBTAINED.

Value per Ton at Station Prices.

**Armour Fertilizer Works.—**  
Continued.

5819	Blood	C. G. Packard, Pomona	69.19
5880	Blood	Mrs. F. M. Chapman, Covina	65.82
5881	Blood	E. R. Brubaker et al., Azusa	65.67
5882	Blood	Mrs. L. S. Poage, Azusa	67.26
5941	Blood	W. D. Simpson, Upland	67.16
6008	Blood	F. C. Devendorf, Covina	69.14
	<i>Guaranteed</i>		69.44
5627	Blood	John Blake, Pasadena	65.92
5904	Blood	Azusa Foot-Hill Cit. Assn., Azusa	67.60
5905	Blood	Azusa Foot-Hill Cit. Assn., Azusa	66.81
5906	Blood	Azusa Foot-Hill Cit. Assn., Azusa	64.83
5907	Blood	Azusa Foot-Hill Cit. Assn., Azusa	66.56
5908	Blood	Azusa Foot-Hill Cit. Assn., Azusa	66.86
5973	Blood	Azusa Foot-Hill Cit. Assn., Azusa	65.62
5974	Blood	Azusa Foot-Hill Cit. Assn., Azusa	66.86
5975	Blood	Azusa Foot-Hill Cit. Assn., Azusa	65.12
	<i>Guaranteed</i>		64.48
5821	Blood	Redlands Fruit Assn., Redlands	66.46
5863	Blood	Redlands Fruit Assn., Redlands	66.71
	<i>Guaranteed</i>		61.70
5792	Blood	Mrs. J. H. Simpson et al., Covina	---
5808	Blood	P. J. Neilly, Pomona	---
5811	Blood	Redlands Fruit Assn., Redlands	---
5835	Blood	W. P. Watts, Covina	---
5939	Blood	Cucamonga C. F. G. Assn., Cucamonga	---
5940	Blood	J. S. Edwards, Redlands	---
5948	Blood	L. P. Mattatall, Covina	---
5949	Blood	J. D. Vaughn et al., Covina	---
5950	Blood	Charles Menefee, Covina	---
5953	Blood	Mrs. A. Dalin, Covina	---
5954	Blood	W. L. Wiley et al., Glendora	---
5982	Blood	Arthur Bowring, Charter Oak	---
5999	Blood	W. H. Lindley, Ontario	---
6000	Blood	G. D. Tangeman, San Dimas	---
6014	Blood	Wm. H. Overholtzer et al., Covina	---
	<i>Sold on Station Analysis.</i>		
5512	Blood	W. H. Lindley, Ontario	71.57
	<i>Guaranteed</i>		70.53
5758	Blood	E. F. Wilson, Upland	72.32
	<i>Guaranteed</i>		71.56
5807	Blood	R. T. Murrell, Pomona	68.25
	<i>Guaranteed</i>		68.20
5812	Blood	Redlands Fruit Assn., Redlands	64.73
	<i>Guaranteed</i>		66.66
5595	Bone, Blood and Potash	J. C. Boyd, Rialto	33.42
3641	Bone, Blood and Potash	K. Carter, Monrovia	33.41
5772	Bone, Blood and Potash	I. W. Freeman, Placentia	33.35
5803	Bone, Blood and Potash	R. E. Fairchild, Redlands	32.51
6006	Bone, Blood and Potash	Perkins Bros., Porterville	34.93
	<i>Guaranteed</i>		32.80

Laboratory Number	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN			POTASH		CHLORIN		
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total			
5819	-----	-----	-----	-----	-----	13.95	-----	13.95	-----	-----		
5880	-----	-----	-----	-----	-----	13.27	-----	13.27	-----	-----		
5881	-----	-----	-----	-----	-----	13.24	-----	13.24	-----	-----		
5882	-----	-----	-----	-----	-----	13.56	-----	13.56	-----	-----		
5941	-----	-----	-----	-----	-----	13.54	-----	13.54	-----	-----		
6008	-----	-----	-----	-----	-----	13.94	-----	13.94	-----	-----		
-----	-----	-----	-----	-----	-----	14.00	-----	14.00	-----	-----		
5627	-----	-----	-----	-----	-----	13.29	-----	13.29	-----	-----		
5904	-----	-----	-----	-----	-----	13.63	-----	13.63	-----	-----		
5905	-----	-----	-----	-----	-----	13.47	-----	13.47	-----	-----		
5906	-----	-----	-----	-----	-----	13.07	-----	13.07	-----	-----		
5907	-----	-----	-----	-----	-----	13.42	-----	13.42	-----	-----		
5908	-----	-----	-----	-----	-----	13.48	-----	13.48	-----	-----		
5973	-----	-----	-----	-----	-----	13.23	-----	13.23	-----	-----		
5974	-----	-----	-----	-----	-----	13.48	-----	13.48	-----	-----		
5975	-----	-----	-----	-----	-----	13.13	-----	13.13	-----	-----		
-----	-----	-----	-----	-----	-----	13.00	-----	13.00	-----	-----		
5821	-----	-----	-----	-----	-----	13.40	-----	13.40	-----	-----		
5863	-----	-----	-----	-----	-----	13.45	-----	13.45	-----	-----		
-----	-----	-----	-----	-----	-----	12.44	-----	12.44	-----	-----		
5792	-----	-----	-----	-----	-----	13.80	-----	13.80	-----	-----		
5808	-----	-----	-----	-----	-----	13.64	-----	13.64	-----	-----		
5811	-----	-----	-----	-----	-----	13.08	-----	13.08	-----	-----		
5835	-----	-----	-----	-----	-----	13.38	-----	13.38	-----	-----		
5939	-----	-----	-----	-----	-----	13.80	-----	13.80	-----	-----		
5940	-----	-----	-----	-----	-----	14.48	-----	14.48	-----	-----		
5948	-----	-----	-----	-----	-----	14.31	-----	14.31	-----	-----		
5949	-----	-----	-----	-----	-----	13.50	-----	13.50	-----	-----		
5950	-----	-----	-----	-----	-----	13.52	-----	13.52	-----	-----		
5953	-----	-----	-----	-----	-----	13.15	-----	13.15	-----	-----		
5954	-----	-----	-----	-----	-----	13.20	-----	13.20	-----	-----		
5982	-----	-----	-----	-----	-----	14.60	-----	14.60	-----	-----		
5999	-----	-----	-----	-----	-----	13.72	-----	13.72	-----	-----		
6000	-----	-----	-----	-----	-----	13.49	-----	13.49	-----	-----		
6014	-----	-----	-----	-----	-----	13.36	-----	13.36	-----	-----		
5512	-----	-----	-----	-----	-----	14.43	-----	14.43	-----	-----		
-----	-----	-----	-----	-----	-----	14.22	-----	14.22	-----	-----		
5758	-----	-----	-----	-----	-----	14.58	-----	14.58	-----	-----		
-----	-----	-----	-----	-----	-----	14.43	-----	14.43	-----	-----		
5807	-----	-----	-----	-----	-----	13.76	-----	13.76	-----	-----		
-----	-----	-----	-----	-----	-----	13.75	-----	13.75	-----	-----		
5812	-----	-----	-----	-----	-----	13.05	-----	13.05	-----	-----		
-----	-----	-----	-----	-----	-----	13.44	-----	13.44	-----	-----		
5595	9.05	0.80	9.85	-----	1.59	-----	2.46	-----	4.05	7.56	7.56	0.90
5641	7.60	2.20	9.80	-----	1.48	-----	2.62	-----	4.10	7.28	7.28	0.82
5772	8.48	1.22	9.70	-----	1.65	-----	2.55	-----	4.20	7.10	7.10	0.85
5803	8.35	1.00	9.35	-----	1.56	-----	2.61	-----	4.17	6.68	6.68	0.60
6006	8.60	1.80	10.40	-----	1.49	-----	2.81	-----	4.30	7.38	7.38	0.90
-----	8.00	2.00	10.00	Bn, Super,	1.50	-----	2.50	Bl, Bn, G, T	4.00	7.00	7.00	-----

NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND  
NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.

**Armour Fertilizer Works.—**  
Continued.

5586*	Bone Meal -----	Hugh Latimer, Arlington-----	34.74
5587*	Bone Meal -----	Hugh Latimer, Arlington-----	35.03
5606*	Bone Meal -----	Fillmore Cit. Frt. Assn., Fillmore-----	36.07
5671*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	33.82
5672*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	34.28
5673*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	35.43
5681*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	35.34
5683*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	35.87
5686*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	36.98
5707*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	36.25
5770*	Bone Meal -----	I. W. Freeman, Placentia-----	36.69
	<i>Guaranteed</i>		30.80
5684*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	36.45
5685*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	40.05
5776*	Bone Meal -----	W. T. Henderson, Riverside-----	35.62
	<i>Guaranteed</i>		31.20
5645*	Bone Meal -----	R. T. Murrell, Pomona-----	34.12
5806*	Bone Meal -----	R. T. Murrell, Pomona-----	36.79
	<i>Guaranteed</i>		33.70
5626*	Bone Meal -----	John Blake, Pasadena-----	35.01
6001*	Bone Meal -----	G. D. Tangeman, San Dimas-----	35.20
	<i>Guaranteed</i>		32.60
5639*	Bone Meal -----	K. Carter, Monrovia-----	32.87
	<i>Guaranteed</i>		33.90
5682*	Bone Meal -----	Azusa Foot-Hill Cit. Assn., Azusa-----	39.57
	<i>Guaranteed</i>		33.40
5600	Cropmaker -----	Piru Oil and Land Co., Piru-----	26.75
5607	Cropmaker -----	Fillmore Cit. Frt. Assn., Fillmore-----	25.96
5640	Cropmaker -----	K. Carter, Monrovia-----	26.91
5691	Cropmaker -----	E. F. Wilson, Upland-----	26.79
5773	Cropmaker -----	I. W. Freeman, Placentia-----	27.65
5903	Cropmaker -----	W. H. Wyckoff, Redlands-----	26.98
	<i>Guaranteed</i>		26.38
5716	Cropmaker -----	H. P. Greene, San Diego-----	27.41
5717	Cropmaker -----	H. P. Greene, San Diego-----	26.96
	<i>Guaranteed</i>		25.08
5660	Cropmaker -----	W. A. Lucas, Cucamonga-----	28.50
	<i>Guaranteed</i>		27.00
5677	Cropmaker -----	Anaheim Fruit Assn., Anaheim-----	32.72
	<i>Guaranteed</i>		28.92
5884*	Fish Meal -----	J. W. Corwin, Highland-----	24.96
5930*	Fish Meal -----	Mrs. James Fleming, San Bernardino-----	35.18
5934*	Fish Meal -----	J. W. Corwin, Highland-----	24.26
	<i>Guaranteed</i>		44.64

\*5586—71% fine.

\*5681—71% fine.

\*5587—70% fine.

\*5683—69% fine.

\*5606—66% fine.

\*5656—63% fine.

\*5671—71% fine.

\*5707—70% fine.

\*5672—73% fine.

\*5770—70% fine.

\*5673—73% fine.

\*5684—43% fine.

Laboratory Number

	POUNDS PER HUNDRED.						CHLORIN					
	PHOSPHORIC ACID			NITROGEN								
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	CHLORIN
5586	-----	-----	25.30	-----	-----	-----	2.72	-----	2.72	-----	-----	-----
5587	-----	-----	24.60	-----	-----	-----	2.93	-----	2.93	-----	-----	-----
5606	-----	-----	26.10	-----	-----	-----	2.86	-----	2.86	-----	-----	-----
5671	-----	-----	25.50	-----	-----	-----	2.47	-----	2.47	-----	-----	-----
5672	-----	-----	26.60	-----	-----	-----	2.35	-----	2.35	-----	-----	-----
5673	-----	-----	26.70	-----	-----	-----	2.59	-----	2.59	-----	-----	-----
5681	-----	-----	26.80	-----	-----	-----	2.55	-----	2.55	-----	-----	-----
5683	-----	-----	26.80	-----	-----	-----	2.67	-----	2.67	-----	-----	-----
5686	-----	-----	27.30	-----	-----	-----	2.82	-----	2.82	-----	-----	-----
5707	-----	-----	26.10	-----	-----	-----	2.90	-----	2.90	-----	-----	-----
5770	-----	-----	26.00	-----	-----	-----	3.02	-----	3.02	-----	-----	-----
-----	-----	-----	22.00	-----	-----	-----	2.50	-----	2.50	-----	-----	-----
5684	-----	-----	20.70	-----	-----	-----	4.05	-----	4.05	-----	-----	-----
5685	-----	-----	24.90	-----	-----	-----	4.01	-----	4.01	-----	-----	-----
5776	-----	-----	23.00	-----	-----	-----	3.39	-----	3.39	-----	-----	-----
-----	-----	-----	20.00	-----	-----	-----	3.00	-----	3.00	-----	-----	-----
5645	-----	-----	25.00	-----	-----	-----	2.64	-----	2.64	-----	-----	-----
5806	-----	-----	26.45	-----	-----	-----	2.95	-----	2.95	-----	-----	-----
-----	-----	-----	24.00	-----	-----	-----	2.75	-----	2.75	-----	-----	-----
5626	-----	-----	25.50	-----	-----	-----	2.74	-----	2.74	-----	-----	-----
6001	-----	-----	24.10	-----	-----	-----	3.07	-----	3.07	-----	-----	-----
-----	-----	-----	24.00	-----	-----	-----	2.50	-----	2.50	-----	-----	-----
5639	-----	-----	22.20	-----	-----	-----	2.93	-----	2.93	-----	-----	-----
-----	-----	-----	23.00	-----	-----	-----	3.00	-----	3.00	-----	-----	-----
5682	-----	-----	22.50	-----	-----	-----	4.39	-----	4.39	-----	-----	-----
-----	-----	-----	20.00	-----	-----	-----	3.50	-----	3.50	-----	-----	-----
5600	9.14	0.66	9.80	-----	0.93	0.94	2.12	-----	3.99	2.37	2.37	0.65
5607	9.01	0.84	9.85	-----	1.07	1.00	1.79	-----	3.86	2.36	2.36	-----
5640	8.45	1.20	9.65	-----	1.05	1.00	2.09	-----	4.14	2.25	2.25	-----
5691	9.00	1.10	10.10	-----	1.13	0.89	2.16	-----	4.18	1.62	1.62	-----
5773	7.89	2.06	9.95	-----	1.04	1.11	2.01	-----	4.16	-----	2.72	1.27
5903	7.90	2.10	10.00	-----	1.04	1.00	1.96	-----	4.00	-----	2.56	1.55
-----	8.00	2.00	10.00	Bn, G, Super	1.00	1.00	2.00	Bl, Bn, G, T	4.00	2.00	2.00	-----
5716	7.87	1.98	9.85	-----	3.10	-----	1.13	-----	4.23	3.36	3.36	1.00
5717	8.74	1.06	9.80	-----	2.92	-----	1.10	-----	4.02	3.61	3.61	1.00
-----	8.00	2.00	10.00	Bn, G, Super	3.00	-----	1.00	Bl, Bn, G, T	4.00	2.00	2.00	-----
5660	8.09	1.76	9.85	-----	1.02	0.38	2.73	-----	4.13	2.80	2.80	-----
-----	8.00	2.00	10.00	Bn, G, Super	1.50	-----	2.50	Bl, Bn, G, T	4.00	2.00	2.00	-----
5677	-----	-----	10.90	-----	-----	-----	4.58	-----	4.58	-----	2.38	1.07
-----	-----	-----	10.00	Bn, G, Super	-----	-----	4.00	Bl, Bn, G, T	4.00	2.00	2.00	-----
5884	-----	-----	3.25	-----	-----	-----	5.14	-----	5.14	-----	-----	-----
5930	-----	-----	5.05	-----	-----	-----	7.17	-----	7.17	-----	-----	-----
5934	-----	-----	4.00	-----	-----	-----	4.86	-----	4.86	-----	-----	-----
-----	-----	-----	7.00	-----	-----	-----	9.00	-----	9.00	-----	-----	-----

\*5685—44% fine.

\*5776—70% fine.

\*5645—74% fine.

\*5806—70% fine.

\*5626—71% fine.

\*6001—79% fine.

\*5639—49% fine.

\*5882—42% fine.

\*5884—53% fine.

\*5930—65% fine.

\*5984—53% fine.

NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.		FROM WHOM OBTAINED.
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Value per Ton at  
Station Prices.

**Armour Fertilizer Works—Continued.**

5670*	Fish Meal <i>Guaranteed</i>	J. H. Reed & Son, Riverside	42.92
5625	Lawn and Garden <i>Guaranteed</i>	John Blake, Pasadena	23.06 24.82
5718	Lawn and Garden <i>Guaranteed</i>	H. P. Greene, San Diego	19.86 24.18
5714	Lawn Special	H. P. Greene, San Diego	25.37
5715	Lawn Special <i>Guaranteed</i>	H. P. Greene, San Diego	25.10 23.42
5548	Nursery Special <i>Guaranteed</i>	A. M. Seeley, Covina	26.07 24.83
5594	Nitrate of Soda	J. C. Boyd, Rialto	44.80
5605	Nitrate of Soda	Fillmore Cit. Frt. Assn., Fillmore	48.17
5713	Nitrate of Soda	H. P. Greene, San Diego	45.46
5774	Nitrate of Soda	W. T. Henderson, Riverside	45.85
5801	Nitrate of Soda <i>Guaranteed</i>	R. E. Fairchild, Redlands	46.86 46.80
5678	Orange Tree Manure	Anaheim Frt. Assn., Anaheim	27.69
5771	Orange Tree Manure <i>Guaranteed</i>	I. W. Freeman, Placentia	28.63 26.84
5644	Orange Tree Manure <i>Guaranteed</i>	R. T. Murrell, Pomona	27.53 24.92
5805	Orange Tree Manure <i>Guaranteed</i>	R. E. Fairchild, Redlands	26.68 24.93
5712	Potato Special <i>Guaranteed</i>	Garden Grove Lmb. Co., Garden Grove	25.37 26.32
5545	Special <i>Guaranteed</i>	W. P. Glidden, Glendora	32.56 30.20
5689	Special <i>Guaranteed</i>	E. F. Wilson, Upland	31.71 30.76
5937	Special <i>Guaranteed</i>	M. C. Mascart, Redlands	29.40 30.48
5961	Special <i>Guaranteed</i>	D. P. Stone, Redlands	37.73 35.50
5719	Sulfate of Potash	H. P. Greene, San Diego	53.13
5726	Sulfate of Potash <i>Guaranteed</i>	E. F. Wilson, Upland	57.49 55.68
5727	Vegetable <i>Guaranteed</i>	Garden Grove Lmb. Co., Garden Grove	24.86 24.82

\*5670—70% fine.

Laboratory Number	POUNDS PER HUNDRED.										CHLORIN
	PHOSPHORIC ACID			NITROGEN			POTASH				
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total
5670	-----	-----	5.10	-----	-----	-----	8.92	-----	8.92	-----	-----
-----	-----	-----	5.58	-----	-----	-----	8.77	-----	8.77	-----	-----
5625	3.90	0.70	4.60	-----	1.45	-----	2.19	-----	3.64	4.10	4.10
-----	4.00	1.00	5.00	Bn, G, Super	1.50	-----	2.50	Bl, Bn, G, T	4.00	4.00	4.00
5718	2.95	1.80	4.75	-----	1.87	-----	1.21	-----	3.08	3.82	3.82
-----	4.00	1.00	5.00	Bn, G, Super	2.00	-----	2.00	Bl, Bn, G, T	4.00	4.00	4.00
5714	-----	-----	5.65	-----	2.69	-----	1.94	-----	4.63	-----	2.89
5715	4.20	1.30	5.50	-----	2.42	-----	2.05	-----	4.47	-----	3.09
-----	4.00	1.00	5.00	Bn, G, Super	2.50	-----	2.00	Bl, Bn, G, T	4.50	2.00	2.00
5548	9.68	0.82	10.50	-----	2.00	0.78	1.17	-----	3.95	2.40	2.40
-----	9.00	1.00	10.00	Bn, G, Super	2.35	0.75	1.00	Bl, Bn, G, T	4.10	1.50	1.50
5594	-----	-----	-----	-----	14.36	-----	-----	-----	14.36	-----	-----
5605	-----	-----	-----	-----	15.44	-----	-----	-----	15.44	-----	-----
5713	-----	-----	-----	-----	14.57	-----	-----	-----	14.57	-----	-----
5774	-----	-----	-----	-----	14.70	-----	-----	-----	14.70	-----	-----
5801	-----	-----	-----	-----	15.02	-----	-----	-----	15.02	-----	-----
-----	-----	-----	-----	-----	15.00	-----	-----	-----	15.00	-----	-----
5678	-----	10.50	-----	-----	-----	-----	3.13	-----	3.13	3.85	3.85
5771	-----	8.85	-----	-----	-----	-----	3.50	-----	3.50	-----	4.54
-----	-----	10.00	Bn, G, Super	-----	-----	-----	3.00	Bl, Bn, G, T	3.00	4.00	4.00
5644	7.86	2.84	10.70	-----	1.57	-----	1.78	-----	3.35	4.46	4.46
-----	8.00	2.00	10.00	Bn, G, Super	1.50	-----	1.50	Bl, Bn, G, T	3.00	4.00	4.00
5805	8.79	1.16	9.95	-----	1.00	0.58	1.77	-----	3.35	-----	4.31
-----	8.00	2.00	10.00	Bn, G, Super	1.00	0.50	1.50	Bl, Bn, C, S, Meal, G, T	3.00	4.00	4.00
5712	7.65	0.55	8.20	-----	0.87	-----	0.83	-----	1.70	10.02	10.02
-----	6.00	2.00	8.00	Bn	1.00	-----	1.00	Bl, Bn	2.00	10.00	10.00
5545	-----	-----	10.90	-----	0.47	0.34	2.26	-----	3.07	8.86	8.86
-----	-----	-----	10.00	Bn, G, Super	1.00	-----	2.00	Bl, Bn, G, T	3.00	8.00	8.00
5689	8.57	1.78	10.35	-----	2.21	-----	2.57	-----	4.78	3.61	3.61
-----	8.00	2.00	10.00	Bn, G, Super	2.00	-----	3.00	Bl, Bn, G, T	5.00	2.00	2.00
5937	6.34	2.56	8.90	-----	1.50	-----	2.44	-----	3.94	5.15	5.15
-----	6.00	4.00	10.00	Bn, G, Super	1.50	-----	2.50	Bl, Bn, G, T	4.00	5.00	5.00
5961	-----	-----	11.80	-----	1.85	-----	2.47	-----	4.32	-----	9.03
-----	-----	-----	13.00	Bn, G, Super	1.50	-----	2.50	Bl, Bn, C, S, Meal, G, T	4.00	7.00	7.00
5719	-----	-----	-----	-----	-----	-----	-----	-----	-----	45.80	45.80
5726	-----	-----	-----	-----	-----	-----	-----	-----	-----	49.56	49.56
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	48.00	48.00
5727	3.94	0.96	4.90	-----	1.56	-----	2.22	-----	3.78	5.01	5.01
-----	4.00	1.00	5.00	Bn, G, Super	1.50	-----	2.50	Bl, Bn, G, T	4.00	4.00	4.00

Laboratory Number

NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

#### FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.

**Armour Fertilizer Works—Continued.**

5780*	Tankage	H. D. Derwin, Upland	49.55
5791*	Tankage	F. H. Nesbit, Pomona	48.14
5848*	Tankage	C. E. McLaughlin, Rialto	47.87
5916*	Tankage	L. S. Taylor, San Dimas	48.46
	<i>Guaranteed</i>		47.44
5492*	Tankage	Arlington Hts. Frt. Co., Riverside	41.09
5828*	Tankage	C. L. Nye, Riverside	39.21
5910*	Tankage	C. L. Hovey, San Francisco	36.49
	<i>Guaranteed</i>		39.88
5799*	Tankage	E. F. Wilson, Upland	30.16
5802*	Tankage	R. E. Fairchild, Redlands	33.55
	<i>Guaranteed</i>		31.76
5547*	Tankage	A. M. Seeley, Covina	42.86
	<i>Guaranteed</i>		42.40
5628*	Tankage	John Blake, Pasadena	33.34
	<i>Guaranteed</i>		33.98
5647*	Tankage	R. T. Murrell, Pomona	37.11
	<i>Guaranteed</i>		37.96
5690*	Tankage	E. F. Wilson, Upland	42.00
	<i>Guaranteed</i>		41.65
5692*	Tankage	E. F. Wilson, Upland	32.64
	<i>Guaranteed</i>		32.82
5763*	Tankage	H. G. Koster, Upland	36.69
	<i>Guaranteed</i>		36.06
5775*	Tankage	W. T. Henderson, Riverside	41.86
	<i>Guaranteed</i>		41.61
5779*	Tankage	N. G. Pehl, Upland	42.80
	<i>Guaranteed</i>		42.42
5997*	Tankage	Mrs. J. Fleming, San Bernardino	41.93
	<i>Guaranteed</i>		42.32
5646	2-17-10	R. T. Murrell, Pomona	37.93
5804	2-17-10	R. E. Fairchild, Redlands	39.14
	<i>Guaranteed</i>		35.70
5728	Walnut Special	Garden Grove Lmb. Co., Garden Grove	25.96
	<i>Guaranteed</i>		26.84
5759	4-10-7	E. F. Wilson, Upland	36.28
	<i>Guaranteed</i>		34.72
5769*		I. W. Freeman, Placentia	26.30
	<i>Guaranteed</i>		26.32

California Fertilizer Works,  
San Francisco, Cal.

5583 Blood \_\_\_\_\_ Hanson & Sears, Upland \_\_\_\_\_  
No guaranteed analysis on package.  
5643\* High Grade Bone & Blood Meal R. T. Godfrey, Riverside 40.04  
Guaranteed \_\_\_\_\_ 37.84

\*5780—62% fine.

\*5828—74% fine. Contains hoof.

\*5791—58% fine.

\*5910-71% fine. Contains

\*5848—59% fine.

\*5799—63% fine.

\*5916—61% fine.

\*5802—65% fine  
\*5515 88% fine

Laboratory Number	POUNDS PER HUNDRED.						CHLORIN					
	PHOSPHORIC ACID			NITROGEN								
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total	
5780	—	—	7.10	—	—	—	10.10	—	10.10	—	—	—
5791	—	—	6.05	—	—	—	9.95	—	9.95	—	—	—
5848	—	—	6.60	—	—	—	9.80	—	9.80	—	—	—
5916	—	—	6.20	—	—	—	10.00	—	10.00	—	—	—
—	—	—	5.50	—	—	—	9.88	—	9.88	—	—	—
5492	—	—	7.75	—	—	—	8.07	—	8.07	—	—	—
5828	—	—	7.40	—	—	—	7.70	—	7.70	—	—	—
5910	—	—	7.35	—	—	—	7.09	—	7.09	—	—	—
—	—	—	6.50	—	—	—	8.00	—	8.00	—	—	—
5799	—	—	10.60	—	—	—	5.12	—	5.12	—	—	—
5802	—	—	13.05	—	—	—	5.49	—	5.49	—	—	—
—	—	—	10.50	—	—	—	5.50	—	5.50	—	—	—
5547	—	—	9.85	—	—	—	8.13	—	8.13	—	—	—
—	—	—	10.00	—	—	—	8.00	—	8.00	—	—	—
5628	—	—	14.40	—	—	—	5.22	—	5.22	—	—	—
—	—	—	15.79	—	—	—	5.14	—	5.14	—	—	—
5647	—	—	14.45	—	—	—	6.07	—	6.07	—	—	—
—	—	—	13.00	—	—	—	6.50	—	6.50	—	—	—
5690	—	—	7.30	—	—	—	8.35	—	8.35	—	—	—
—	—	—	7.68	—	—	—	8.21	—	8.21	—	—	—
5692	—	—	13.25	—	—	—	5.25	—	5.25	—	—	—
—	—	—	13.50	—	—	—	5.25	—	5.25	—	—	—
5763	—	—	11.60	—	—	—	6.44	—	6.44	—	—	—
—	—	—	12.80	—	—	—	6.10	—	6.10	—	—	—
5775	—	—	7.85	—	—	—	8.23	—	8.23	—	—	—
—	—	—	7.68	—	—	—	8.20	—	8.20	—	—	—
5779	—	—	13.25	—	—	—	7.56	—	7.56	—	—	—
—	—	—	13.70	—	—	—	7.40	—	7.40	—	—	—
5997	—	—	7.70	—	—	—	8.27	—	8.27	—	—	—
—	—	—	7.87	—	—	—	8.33	—	8.33	—	—	—
5646	—	—	18.00	—	—	—	2.26	—	2.26	10.16	10.16	0.82
5804	—	—	17.60	—	—	—	2.50	—	2.50	10.60	10.60	0.95
—	—	—	17.00	Bn	—	—	2.00	Bl, Bn, T	2.00	10.00	10.00	—
5728	7.82	1.78	9.60	—	1.09	—	1.27	—	2.36	7.18	7.18	—
—	8.00	2.00	10.00	Bn, G, Super	1.00	—	1.50	Bl, Bn, G, T	2.50	7.00	7.00	—
5759	—	—	11.15	—	—	—	4.15	—	4.15	—	6.88	1.82
—	—	—	10.00	Bn, G, Super	—	—	4.00	Bl, Bn, G, T	4.00	7.00	7.00	—
—	6.00	2.00	8.00	Bn, G,	1.00	—	1.07	—	1.90	10.02	10.02	0.85
—	—	—	—	Super	—	—	1.00	Bl, Bn, G, T	2.00	10.00	10.00	—
5583	—	—	—	—	—	—	13.40	—	13.40	—	—	—
5643	—	—	24.40	—	—	—	4.11	—	4.11	—	—	—
—	—	—	22.00	Bn,	—	—	4.10	Bl, Bn	4.10	—	—	—

\*5628—61% fine.

\*5647—77% fine.

\*5690—74% fine.

\*5692—78% fine.

\*5763—82% fine.

\*5775—76% fine.

\*5779—83% fine.  
\*5997—80% fine.\*5769—No brand name in violation of  
California Fertilizer Act.

\*5643—50% fine.

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**California Fertilizer Works.—**  
Continued.

5754	Peach -----	Glen Una, Los Gatos-----	25.55
	<i>Guaranteed</i> -----		25.69
6020	Special -----	A. C. Denman & Son, Redlands-----	28.22
6021	Special -----	A. C. Denman & Son, Redlands-----	28.30
6033	Special -----	A. C. Denman & Son, Redlands-----	25.36
6037	Special -----	A. C. Denman & Son, Redlands-----	25.86
6044	Special -----	A. C. Denman & Son, Redlands-----	28.97
	<i>Guaranteed</i> -----		29.78
5952	Special -----	McKee Mhoon, Lindsay-----	26.61
6013	Special -----	McKee Mhoon, Lindsay-----	26.48
	<i>Guaranteed</i> -----		28.68
6030	Special -----	Harry Postlethwaite, Lindsay-----	38.19
	<i>Guaranteed</i> -----		39.20
6029	Special -----	Harry Postlethwaite, Lindsay-----	31.50
	<i>Guaranteed</i> -----		30.30
5951	Special -----	Security Inv. Co., Palermo-----	27.42
	<i>Guaranteed</i> -----		27.64
5582	Special Orange Tree-----	Hanson & Sears, Upland-----	26.29
	<i>Guaranteed</i> -----		26.96
5584*	Tankage -----	Hanson & Sears, Upland-----	40.24
	<i>Guaranteed</i> -----		39.44

**Cudahy Packing Company,  
Los Angeles, Cal.**

5497*	Tankage -----	C. A. Boetteger, Redlands-----	---
5499*	Tankage -----	Stewart Cit. Assn., Upland-----	---
5832*	Tankage -----	Mrs. E. P. Hubbard, Azusa-----	---
5833*	Tankage -----	W. T. Barker, Azusa-----	---
5897*	Tankage -----	Gold buckle Assn., East Highlands-----	---
5900*	Tankage -----	W. E. Morse, Cucamonga-----	---
5902*	Tankage -----	Miss N. F. Ray, Cucamonga-----	---
5913*	Tankage -----	B. L. King, Covina-----	---
5914*	Tankage -----	F. W. Gail, Covina-----	---
5957*	Tankage -----	R. H. Cochran, Redlands-----	---
6009*	Tankage -----	B. L. King, Covina-----	---
6039*	Tankage -----	B. M. Given, Covina-----	---
6040*	Tankage -----	W. M. Warren, Covina-----	---
	<i>Sold on Station Analysis.</i>		
5503*	Tankage -----	R. H. Wilkinson, Los Angeles-----	35.05
	<i>Guaranteed</i> -----		31.36

\*5584—73% fine.

\*5497—86% fine.

\*5499—77% fine.

\*5832—73% fine.

\*5833—79% fine.

\*5897—69% fine.

\*5900—79% fine.

\*5902—80% fine.

Laboratory Number	POUNDS PER HUNDRED.												CHLORIN	
	PHOSPHORIC ACID				NITROGEN				POTASH					
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total			
5754	6.48	3.77	10.25		0.88	0.47	1.77		3.12	3.72	3.72	0.87		
---	6.50	3.50	10.00	Super and Bn, Super	0.90	---	2.10	Bl, Bn	3.00	4.00	4.00	---		
6020	---	12.40			2.46	0.57	1.32		4.35	1.54	1.54	0.92		
6021	---	12.35			2.47	0.56	1.36		4.39	1.50	1.50	0.90		
6033	---	10.35			2.07	0.60	1.37		4.04	1.46	1.46	0.67		
6037	---	10.45			2.09	0.55	1.46		4.10	1.55	1.55	0.67		
6044	---	11.10			1.60	0.49	2.21		4.30	1.50	1.50	0.80		
---	---	12.00		Bn	2.00		2.50	Bl, Bn	4.50	1.50	1.50	---		
5952	6.53	3.22	9.75		1.37	0.60	1.62		3.59	3.92	3.92	0.82		
6013	5.74	2.96	8.70		1.37	0.53	1.76		3.66	4.29	4.29	0.72		
---	6.50	3.50	10.00	Bn, Super	2.00		2.00	Bl, Bn	4.00	4.00	4.00	---		
6030	9.73	5.42	15.15		0.21	1.24	3.05		4.50	5.68	5.68	---		
---	9.00	5.00	14.00	Bn, Super	---	1.00	3.75	Bn, Bl	4.75	6.00	6.00	---		
6029	14.10	6.50	20.60		---	1.21	0.61		1.82	5.59	5.59	0.67		
---	15.00	5.00	20.00	Bn, Super	---	1.00	0.50	Bn, Bl	1.50	6.00	6.00	---		
5951	7.46	2.24	9.70		1.77	---	1.78		3.55	4.60	4.60	0.85		
---	8.00	2.00	10.00	Bn, Super	2.00	---	1.50	Bn, Bl	3.50	5.00	5.00	---		
5582	6.33	3.82	10.15		0.91	---	1.52		2.43	---	6.58	1.15		
---	6.50	3.50	10.00	Super from Bn	1.00	---	1.50	Animal Matter	2.50	7.10	7.10	---		
5584	---	---	11.70		---	---	7.23		7.23	---	---	---		
---	---	---	12.00		---	---	7.00		7.00	---	---	---		
5497	---	---	14.35		---	---	6.85		6.85	---	---	---		
5499	---	---	14.60		---	---	6.56		6.56	---	---	---		
5832	---	---	11.30		---	---	8.68		8.68	---	---	---		
5833	---	---	17.45		---	---	5.51		5.51	---	---	---		
5897	---	---	10.50		---	---	8.57		8.57	---	---	---		
5900	---	---	16.50		---	---	5.89		5.89	---	---	---		
5902	---	---	17.10		---	---	5.73		5.73	---	---	---		
5913	---	---	17.10		---	---	5.38		5.38	---	---	---		
5914	---	---	10.10		---	---	8.66		8.66	---	---	---		
5957	---	---	14.85		---	---	5.00		5.00	---	---	---		
6009	---	---	13.85		---	---	6.00		6.00	---	---	---		
6039	---	---	12.55		---	---	6.25		6.25	---	---	---		
6040	---	---	7.90		---	---	8.80		8.80	---	---	---		
5503	---	---	13.85		---	---	5.70		5.70	---	---	---		
---	---	---	13.00		---	---	5.00		5.00	---	---	---		

\*5913—81% fine.

\*5914—68% fine.

\*5957—78% fine.

\*6009—70% fine.

\*6039—71% fine.

\*6040—75% fine.

\*5503—75% fine.

	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.	FROM WHOM OBTAINED.	Value per Ton at Station Prices.
	Diamond Fertilizer Company, Los Angeles, Cal.		
5928*	Diamond "C" ----- <i>Guaranteed</i> -----	William Laidlow, Ontario-----	32.27 28.92
5966*	Garbage Tankage -----	G. G. Laidlow, Ontario-----	14.15
5985*	Garbage Tankage -----	O. L. Harper, Ontario-----	14.74
5988*	Garbage Tankage ----- <i>Guaranteed</i> -----	Lucas Ranching Co., Ontario-----	14.85 17.82
6017*	Garbage Tankage ----- <i>Guaranteed</i> -----	Lucas Ranching Co., Ontario-----	21.26 21.46
6035*	Garbage Tankage ----- <i>Guaranteed</i> -----	N. H. Garrison, Ontario-----	18.44 22.90
5494	Special -----	Bloomington Imp. Co., Bloomington-----	32.83
5495	Special ----- <i>Guaranteed</i> -----	Bloomington Imp. Co., Bloomington-----	33.89 32.40
5636	Special ----- <i>Guaranteed</i> -----	W. M. Baird, Duarte-----	32.74 33.50
	Duff's Odorless Fertilizer Co., Glendale, Cal.		
5506*	Duff's Odorless ----- <i>Guaranteed</i> -----	Aggeler & Musser Seed Co., Los Ang.-----	9.50 13.26
	General Fertilizer Assn., San Bernardino, Cal.		
5543	Bat Guano ----- <i>Guaranteed</i> -----	J. H. Reynolds, Redlands-----	23.84 24.76
5535	Blood ----- <i>Guaranteed</i> -----	So. Cal. State Hospital, Patton-----	64.78 64.48
5963*	Bone Meal ----- <i>Guaranteed</i> -----	D. B. Lee, Ontario-----	37.79 37.50
5534*	Bone Meal ----- <i>Guaranteed</i> -----	J. H. Reynolds, Redlands-----	33.70 34.80
5539*	Bone Meal (fish) ----- <i>Guaranteed</i> -----	J. H. Reynolds, Redlands-----	38.27 35.70
5536	G. F. A. Special ----- <i>Guaranteed</i> -----	So. Cal. State Hospital, Patton-----	31.57 31.00
5695	G. F. A. Special ----- <i>Guaranteed</i> -----	Factory at Ontario-----	28.48 30.32
5901	G. F. A. Special ----- <i>Guaranteed</i> -----	F. A. Kilbourne, Cucamonga-----	32.27 31.24
5659	G. F. A. No. 2 ----- <i>Guaranteed</i> -----	G. N. Crosswell, Cucamonga-----	28.31 27.53

\*5928—Sample bottle broken. Sample perhaps invalidated.  
\*5966—26% fine.

\*5985—25% fine.  
\*5988—26% fine.  
\*6017—40% fine.

Laboratory Number	PHOSPHORIC ACID			Guaranteed as derived from insoluble	NITROGEN			POTASH		CHLORIN Total	
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from insoluble	Total		
5928	-----	9.05	-----	Bat G Bn T	-----	-----	4.93	Bat, G, Bl, Bn, T	4.93	-----	2.10 1.52
-----	-----	10.00	-----	-----	-----	4.00	-----	4.00	-----	2.00	-----
5966	-----	2.00	-----	-----	-----	-----	2.57	-----	2.57	-----	1.21
5985	-----	2.10	-----	-----	-----	-----	2.72	-----	2.72	-----	1.09
5988	-----	1.65	-----	-----	-----	-----	2.81	-----	2.81	-----	1.12
-----	-----	4.00	-----	-----	-----	-----	3.00	-----	3.00	-----	1.50
6017	-----	4.90	-----	-----	-----	-----	3.73	-----	3.73	-----	1.14
-----	-----	6.00	-----	-----	-----	-----	3.50	-----	3.50	-----	1.50
6035	-----	4.85	-----	-----	-----	-----	3.21	-----	3.21	-----	0.72
-----	-----	8.00	-----	-----	-----	-----	3.50	-----	3.50	-----	1.50
5494	-----	9.10	-----	-----	-----	-----	4.36	-----	4.36	-----	4.70 1.75
5495	-----	9.75	-----	-----	-----	-----	4.44	-----	4.44	-----	4.81 1.45
-----	-----	10.00	Bat, G, Bn, Super, T	-----	-----	4.00	Bat, G, Bl, Bn, T	4.00	5.00	5.00	-----
5636	-----	14.40	-----	-----	-----	-----	1.91	-----	1.91	9.81	9.81 0.85
-----	-----	17.00	Bn, T	-----	-----	1.50	-----	1.50	10.00	10.00	-----
								T			
5506	-----	2.25	-----	-----	-----	-----	-----	-----	1.33	-----	1.40
-----	-----	0.65	-----	-----	-----	-----	-----	-----	2.48	-----	1.52
5543	-----	17.10	-----	0.94	-----	1.16	-----	-----	2.10	-----	0.36
-----	-----	14.00	-----	-----	-----	2.50	-----	-----	2.50	-----	1.00
5535	-----	-----	-----	-----	-----	13.06	-----	13.06	-----	-----	-----
-----	-----	-----	-----	-----	-----	13.00	-----	13.00	-----	-----	-----
5963	-----	24.10	-----	-----	-----	3.66	-----	-----	3.66	-----	-----
-----	-----	27.00	-----	-----	-----	3.00	-----	-----	3.00	-----	-----
5534	-----	21.90	-----	-----	-----	3.18	-----	-----	3.18	-----	-----
-----	-----	24.00	-----	-----	-----	3.00	-----	-----	3.00	-----	-----
5539	-----	25.80	-----	-----	-----	3.42	-----	-----	3.42	-----	-----
-----	-----	25.00	-----	-----	-----	3.00	-----	-----	3.00	-----	-----
5536	-----	11.35	-----	1.50	-----	2.28	-----	-----	3.78	-----	5.73 0.75
-----	-----	10.00	Bn, G	2.00	-----	2.00	-----	Bl, Bn, G	4.00	-----	6.00
5695	-----	19.80	-----	0.54	-----	2.04	-----	-----	2.58	-----	0.19
-----	-----	20.00	Bn, G	-----	-----	2.80	-----	Bl, Bn, G	2.80	-----	0.33
5901	5.52	4.48	10.00	-----	-----	4.05	-----	-----	4.05	-----	4.70 0.95
-----	-----	10.00	Bn, G, Super	-----	-----	4.00	-----	Bl, Bn, G	4.00	-----	4.00
5659	5.57	4.88	10.45	-----	2.02	-----	2.20	-----	4.22	-----	2.52 0.95
-----	8.00	2.00	10.00	Bn, G, Super	1.50	-----	2.62	-----	4.12	-----	2.00

\*6035—35% fine.

\*5506—No statement of derivation. In violation of California Fertilizer Act.

\*5933—53% fine.

\*5534—50% fine.

\*5539—56% fine.

Laboratory Number

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**General Fertilizer Assn.—**  
Continued.

5693	G. F. A. No. 3-----	Factory at Ontario-----	22.25
	Guaranteed -----		22.06
5540	G. F. A. No. 5 Special-----	J. H. Reynolds, Redlands-----	24.21
	Guaranteed -----		30.76
5538	G. F. A. No. 6-----	J. H. Reynolds, Redlands-----	30.47
	Guaranteed -----		30.96
5544	G. F. A. No. 6-----	J. H. Reynolds, Redlands-----	28.16
	Guaranteed -----		29.68
5658	G. F. A. No. 11-----	G. N. Crosswell, Cucamonga-----	33.51
5694	G. F. A. No. 11-----	Factory at Ontario-----	32.30
	Guaranteed -----		30.34
5541	Lawn and Rose-----	J. H. Reynolds, Redlands-----	18.59
	Guaranteed -----		19.24
5542	Orange and Lemon No. 1-----	J. H. Reynolds, Redlands-----	25.05
	Guaranteed -----		30.48
5984	Special -----	P. A. Demens, Alta Loma-----	29.40
	Guaranteed -----		31.24
5657	Special -----	G. N. Crosswell, Cucamonga-----	24.20
	Guaranteed -----		23.60
5502	Special Orange & Lemon No. 1-----	A. C. Denman & Son, Redlands-----	30.36
	Guaranteed -----		30.48
5537	Sulfate of Potash-----	J. H. Reynolds, Redlands-----	56.12
	Guaranteed -----		56.38
5850*	Tankage -----	D. B. Lee, Ontario-----	35.74
	Guaranteed -----		35.76
<b>Germain Seed and Plant Co., Los Angeles, Cal.</b>			
6015*	Nuvida-Lawn & Garden Special Germain Co.'s Warehouse-----		22.82
	Guaranteed -----		25.84
<b>Hauser Packing Company, Los Angeles, Cal.</b>			
5836	Blood -----	H. P. Reynolds, Pomona-----	---
5856	Blood -----	Santiago Orange Grow. Assn., Orange-----	---
5883	Blood -----	E. D. Barry, Los Angeles-----	---
5888	Blood -----	F. E. Perley, Pomona-----	---
5891	Blood -----	E. E. Langford et al., Redlands-----	---
5918	Blood -----	Pfeiffer Estate, Redlands-----	---
5926	Blood -----	E. L. Dreher, Pomona-----	---
5931	Blood -----	A. Gregory, Redlands-----	---
	Sold on Station Analysis.		---

\*5850—79% fine.

\*6015—Contains cyanamid.

Laboratory Number

	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN			POTASH			CHLORIN
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	
5693	---	---	10.25	-----	0.50	----	1.27	-----	1.77	----	5.07
---	---	---	10.00	Bn, G	----	----	1.65	Bl, Bn, G	1.65	----	5.00
5540	4.00	4.20	8.20	-----	2.50	----	1.58	-----	4.08	----	1.79
---	6.00	4.00	10.00	Bn, G	2.00	----	3.00	Bl, Bn, G	5.00	----	2.00
5538	6.88	5.52	12.40	-----	-----	----	2.93	-----	2.93	----	5.53
---	6.00	6.00	12.00	Bn	-----	----	3.00	Bl, Bn,	3.00	6.00	6.00
5544	6.94	5.66	11.60	-----	0.28	0.22	2.31	-----	2.81	----	5.17
---	8.00	4.00	12.00	Bn, G	1.00	----	2.00	Bl, Bn, G	3.00	----	6.00
5658	6.20	11.10	17.30	-----	-----	----	2.11	-----	2.11	----	7.46
5694	6.49	11.06	17.55	-----	-----	----	1.88	-----	1.88	----	7.10
---	12.00	6.00	18.00	Bn, G	-----	----	1.50	Bl, Bn, G	1.50	----	6.50
5541	3.82	4.28	8.10	-----	1.37	----	1.08	-----	2.45	----	1.96
---	4.00	4.00	8.00	Bn, G	1.00	----	1.50	Bl, Bn, G	2.50	----	2.00
5542	4.23	5.02	9.25	-----	1.26	0.24	1.58	-----	3.08	----	4.39
---	5.00	5.00	10.00	G, Super	1.50	----	2.50	-----	4.00	----	5.00
5984	-----	9.30	-----	-----	0.63	----	3.29	-----	3.92	----	3.96
-----	-----	10.00	-----	Bn, G	-----	----	4.00	Bl, Bn,	4.00	----	4.00
5657	-----	15.15	-----	-----	-----	----	2.40	-----	2.40	----	0.16
-----	-----	14.00	-----	Bn, G	-----	----	2.50	-----	2.50	----	0.75
5502	5.59	5.76	11.35	-----	1.30	----	2.52	-----	3.82	----	4.31
---	5.00	5.00	10.00	Bn, G, Super	1.50	----	2.50	-----	4.00	----	5.00
5537	-----	-----	-----	-----	-----	----	-----	-----	48.38	48.38	1.90
5850	-----	-----	15.30	-----	-----	----	5.62	-----	5.62	----	-----
---	-----	-----	13.00	-----	-----	----	6.00	-----	6.00	----	-----

6015	6.93	0.82	7.75	-----	0.72	----	2.40	-----	3.12	----	2.62	3.10
---	6.00	2.00	8.00	Super, Fs	1.00	----	3.00	Fs	4.00	2.00	2.00	----

5836	-----	-----	-----	-----	-----	-----	12.42	-----	12.42	-----	-----	-----
5856	-----	-----	-----	-----	-----	-----	13.14	-----	13.14	-----	-----	-----
5883	-----	-----	-----	-----	-----	-----	12.62	-----	12.62	-----	-----	-----
5888	-----	-----	-----	-----	-----	-----	12.76	-----	12.76	-----	-----	-----
5891	-----	-----	-----	-----	-----	-----	12.28	-----	12.28	-----	-----	-----
5918	-----	-----	-----	-----	-----	-----	13.13	-----	13.13	-----	-----	-----
5926	-----	-----	-----	-----	-----	-----	12.96	-----	12.96	-----	-----	-----
5931	-----	-----	-----	-----	-----	-----	12.93	-----	12.93	-----	-----	-----

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**Hauser Packing Company.—**  
Continued.

5929	Hauser's Fertilizer -----	W. R. Powell, Azusa-----	29.59
6019	Hauser's Fertilizer -----	W. B. Glidden, Hollywood-----	27.73
	Guaranteed -----		27.12
5987	Hauser's Fertilizer -----	W. M. Baird, Duarte-----	35.57
	Guaranteed -----		35.64
5864	Special -----	T. O. Johnson, Redlands-----	34.26
	Guaranteed -----		28.92
5892	Special -----	Miss L. M. Lincoln, Lordsburg-----	32.03
	Guaranteed -----		30.08
5935	Special -----	Curtis Ranch, Bloomington-----	35.50
	Guaranteed -----		35.64
5666	Special -----	Santiago Orange Grow. Assn., Orange-----	29.63
	Guaranteed -----		30.60
6025*	Tankage -----	B. L. King, Covina-----	39.06
	Guaranteed -----		37.96
5509*	Tankage -----	Bloomington Frt. Assn., Bloomington-----	---
5516*	Tankage -----	F. H. Roberts, Corona-----	---
5563*	Tankage -----	Orange Hts. Frt. Assn., Corona-----	---
5652*	Tankage -----	Orange Hts. Frt. Assn., Corona-----	---
5708*	Tankage -----	Orange Hts. Frt. Assn., Corona-----	---
5750*	Tankage -----	William Gosau, Upland-----	---
5757*	Tankage -----	Stewart Cit. Assn., Upland-----	---
5760*	Tankage -----	A. W. Towne, Pomona-----	---
5767*	Tankage -----	Placentia Orange Grs. Assn., Placentia-----	---
5777*	Tankage -----	Stewart Cit. Assn., Upland-----	---
5781*	Tankage -----	A. W. Towne, Pomona-----	---
5786*	Tankage -----	Stewart Cit. Assn., Upland-----	---
5788*	Tankage -----	W. C. Nickerson, Redlands-----	---
5790*	Tankage -----	A. W. Towne, Pomona-----	---
5813*	Tankage -----	Mtn. View Or. & Lem. Assn., Upland-----	---
5814*	Tankage -----	Mtn. View Or. & Lem. Assn., Upland-----	---
5815*	Tankage -----	Santiago Orange Grs. Assn., Orange-----	---
5816*	Tankage -----	C. A. Boettger, Redlands-----	---
5818*	Tankage -----	Claremont Cit. Assn., Claremont-----	---
5822*	Tankage -----	Redlands Co-op. Assn., Redlands-----	---
5829*	Tankage -----	W. B. Bayless, Los Angeles-----	---
5837*	Tankage -----	H. P. Reynolds, Pomona-----	---
5838*	Tankage -----	Lee R. Matthews, Pomona-----	---
5840*	Tankage -----	Mrs. G. Fox, Pomona-----	---
5842*	Tankage -----	A. B. Cowgill, Redlands-----	---

\*6025—62% fine.

\*5757—66% fine.

\*5509—67% fine.

\*5760—79% fine.

\*5516—68% fine.

\*5767—71% fine.

\*5563—73% fine.

\*5777—71% fine.

\*5552—70% fine.

\*5781—66% fine.

\*5708—68% fine.

\*5786—70% fine.

\*5750—68% fine.

\*5788—69% fine.

Laboratory Number

	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN			POTASH		CHLORIN	
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total		
5929	—	—	9.70	—	—	—	4.67	—	4.67	—	1.77 1.65
6019	—	—	11.05	—	—	—	3.96	—	3.96	—	2.03 1.10
—	—	—	10.00	Bn	—	—	4.00	Bl, Bn, T	4.00	2.00	2.00 —
5987	—	—	8.65	—	—	—	5.96	—	5.96	—	2.69 2.10
—	—	—	8.00	Bn	—	—	6.00	Bl, Bn, T	6.00	3.00	3.00 —
5864	—	—	11.25	—	—	—	4.63	—	4.63	—	3.24 1.97
—	—	—	10.00	Bn	—	—	4.00	Bl, Bn, T	4.00	2.00	2.00 —
5892	—	—	9.50	—	—	—	4.26	—	4.26	—	4.08 1.32
—	—	—	10.00	Bn, T	—	—	4.00	Bl, Bn, T	4.00	3.00	3.00 —
5935	—	—	8.40	—	—	—	5.98	—	5.98	—	2.71 1.70
—	—	—	8.00	Bn, T	—	—	6.00	Bl, Bn, T	6.00	3.00	3.00 —
5666	—	—	8.80	—	—	—	4.26	—	4.26	—	3.92 1.90
—	—	—	10.00	Bn, T	—	—	4.00	Bl, Bn, T	4.00	5.00	5.00 —
6025	—	—	12.70	—	—	—	6.80	—	6.80	—	—
—	—	—	13.00	—	—	—	6.50	—	6.50	—	—
5509	—	—	12.90	—	—	—	5.90	—	5.90	—	—
5516	—	—	14.30	—	—	—	5.90	—	5.90	—	—
5563	—	—	14.30	—	—	—	5.45	—	5.45	—	—
5652	—	—	14.55	—	—	—	5.72	—	5.72	—	—
5708	—	—	14.25	—	—	—	5.42	—	5.42	—	—
5750	—	—	8.40	—	—	—	7.68	—	7.68	—	—
5757	—	—	7.10	—	—	—	8.21	—	8.21	—	—
5760	—	—	7.90	—	—	—	7.97	—	7.97	—	—
5767	—	—	7.80	—	—	—	8.22	—	8.22	—	—
5777	—	—	7.50	—	—	—	8.20	—	8.20	—	—
5781	—	—	8.15	—	—	—	7.94	—	7.94	—	—
5786	—	—	7.70	—	—	—	8.03	—	8.03	—	—
5788	—	—	7.20	—	—	—	8.30	—	8.30	—	—
5790	—	—	7.70	—	—	—	8.30	—	8.30	—	—
5813	—	—	8.10	—	—	—	8.23	—	8.23	—	—
5814	—	—	7.65	—	—	—	8.54	—	8.54	—	—
5815	—	—	7.60	—	—	—	8.30	—	8.30	—	—
5816	—	—	12.35	—	—	—	6.69	—	6.69	—	—
5818	—	—	8.70	—	—	—	8.15	—	8.15	—	—
5822	—	—	13.10	—	—	—	6.44	—	6.44	—	—
5829	—	—	8.70	—	—	—	7.99	—	7.99	—	—
5837	—	—	8.20	—	—	—	7.65	—	7.65	—	—
5838	—	—	7.50	—	—	—	7.87	—	7.87	—	—
5840	—	—	8.20	—	—	—	7.65	—	7.65	—	—
5842	—	—	12.85	—	—	—	6.55	—	6.55	—	—

\*5790—66% fine.

\*5813—64% fine.

\*5814—69% fine.

\*5815—69% fine.

\*5816—72% fine.

\*5818—65% fine.

\*5822—75% fine.

\*5829—63% fine.

\*5837—65% fine.

\*5838—68% fine.

\*5840—65% fine.

\*5842—73% fine.

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**Hauser Packing Company.—**  
Continued.

5843*	Tankage -----	A. E. Taylor, Redlands-----
5844*	Tankage -----	P. Harley, Redlands-----
5845*	Tankage -----	J. F. Beckerer, Pomona-----
5846*	Tankage -----	J. E. Coyner, Pomona-----
5851*	Tankage -----	William Rohrig, Upland-----
5852*	Tankage -----	F. L. Winn, Upland-----
5853*	Tankage -----	W. J. Hartzell, East Highlands-----
5857*	Tankage -----	Santiago Orange Grs. Assn., Orange-----
5861*	Tankage -----	H. A. Hargreaves, Redlands-----
5865*	Tankage -----	E. R. Matthews, Pomona-----
5886*	Tankage -----	Mrs. E. E. Gillen et al., Pomona-----
5887*	Tankage -----	Donald Scott, Pomona-----
5893*	Tankage -----	E. E. Ebersole, Lordsburg-----
5896*	Tankage -----	Hanson & Sears, Upland-----
5909*	Tankage -----	Stewart Cit. Assn., Upland-----
5911*	Tankage -----	Pomona Frt. Grs. Assn. et al., Pomona-----
5912*	Tankage -----	Guy Hill et al., Pomona-----
5919*	Tankage -----	Pfeiffer Estate, Redlands-----
5917*	Tankage -----	C. A. Sherrod, Highland-----
5925*	Tankage -----	T. B. Himrod, Pomona-----
5927*	Tankage -----	R. A. Madison et al., Pomona-----
5932*	Tankage -----	E. N. Nahmens, Redlands-----
5943*	Tankage -----	Mrs. B. L. Olds, Claremont-----
5944*	Tankage -----	Claremont Cit. Assn. et al., Claremont-----
5947*	Tankage -----	C. A. Griffiths, Azusa-----
5959*	Tankage -----	C. M. Bassett, Santa Monica-----
5960*	Tankage -----	Fillmore Cit. Assn., Fillmore-----
5968*	Tankage -----	Pomona Frt. Grs. Exch., Pomona-----
5969*	Tankage -----	Brearley Inv. Co., Los Angeles-----
5970*	Tankage -----	F. W. Tucker, Azusa-----
5971*	Tankage -----	C. A. Griffiths, Azusa-----
5981*	Tankage -----	L. E. Loveland, Pomona-----
5986*	Tankage -----	Claremont Cit. Assn., Claremont-----
5992*	Tankage -----	J. R. Neff, Pomona-----
6034*	Tankage -----	G. L. Hutchinson, Los Angeles-----

Sold on Station Analysis.

**Hawaiian Fertilizer Co., Ltd.,  
San Francisco, Cal.**

5753*	Tankage -----	Charles C. Moore, San Francisco-----	39.36
	Guaranteed -----		37.96

\*5843—74% fine.

\*5865—73% fine.

\*5844—67% fine.

\*5883—72% fine.

\*5845—69% fine.

\*5887—72% fine.

\*5846—65% fine.

\*5893—70% fine.

\*5851—69% fine.

\*5896—71% fine.

\*5852—68% fine.

\*5909—71% fine.

\*5853—70% fine.

\*5911—74% fine.

\*5857—68% fine.

\*5912—74% fine.

\*5861—76% fine.

\*5919—76% fine.

Laboratory Number

	PHOSPHORIC ACID			Guaranteed as derived from	POUNDS PER HUNDRED.			NITROGEN			POTASH			CHLORIN
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total			
5843	—	—	12.85	—	—	—	6.52	—	6.52	—	—	—	—	
5844	—	—	7.30	—	—	—	8.03	—	8.03	—	—	—	—	
5845	—	—	7.35	—	—	—	8.26	—	8.26	—	—	—	—	
5846	—	—	8.00	—	—	—	8.44	—	8.44	—	—	—	—	
5851	—	—	7.55	—	—	—	8.12	—	8.12	—	—	—	—	
5852	—	—	7.10	—	—	—	7.82	—	7.82	—	—	—	—	
5853	—	—	12.80	—	—	—	6.84	—	6.84	—	—	—	—	
5857	—	—	8.15	—	—	—	7.89	—	7.89	—	—	—	—	
5861	—	—	13.10	—	—	—	6.58	—	6.58	—	—	—	—	
5865	—	—	9.15	—	—	—	7.69	—	7.69	—	—	—	—	
5886	—	—	9.00	—	—	—	7.73	—	7.73	—	—	—	—	
5887	—	—	9.60	—	—	—	7.83	—	7.83	—	—	—	—	
5893	—	—	9.20	—	—	—	7.69	—	7.69	—	—	—	—	
5896	—	—	10.05	—	—	—	5.56	—	5.56	—	—	—	—	
5909	—	—	8.65	—	—	—	7.80	—	7.80	—	—	—	—	
5911	—	—	8.90	—	—	—	7.58	—	7.58	—	—	—	—	
5912	—	—	10.10	—	—	—	7.40	—	7.40	—	—	—	—	
5919	—	—	10.05	—	—	—	7.66	—	7.66	—	—	—	—	
5917	—	—	13.70	—	—	—	6.54	—	6.54	—	—	—	—	
5925	—	—	10.20	—	—	—	7.80	—	7.80	—	—	—	—	
—	—	—	9.60	—	—	—	7.63	—	7.63	—	—	—	—	
5932	—	—	10.15	—	—	—	7.39	—	7.39	—	—	—	—	
5943	—	—	9.75	—	—	—	7.51	—	7.51	—	—	—	—	
5944	—	—	10.25	—	—	—	7.54	—	7.54	—	—	—	—	
5947	—	—	10.50	—	—	—	7.29	—	7.29	—	—	—	—	
5959	—	—	10.60	—	—	—	7.45	—	7.45	—	—	—	—	
5960	—	—	9.45	—	—	—	7.50	—	7.50	—	—	—	—	
5968	—	—	9.50	—	—	—	7.85	—	7.85	—	—	—	—	
5969	—	—	8.85	—	—	—	7.90	—	7.90	—	—	—	—	
—70	—	—	9.10	—	—	—	7.48	—	7.48	—	—	—	—	
5971	—	—	8.60	—	—	—	7.84	—	7.84	—	—	—	—	
5981	—	—	7.15	—	—	—	8.95	—	8.95	—	—	—	—	
5986	—	—	8.15	—	—	—	7.76	—	7.76	—	—	—	—	
5992	—	—	8.65	—	—	—	7.82	—	7.82	—	—	—	—	
6034	—	—	7.90	—	—	—	7.30	—	7.30	—	—	—	—	

5753	—	—	13.30	—	—	—	6.77	—	6.77	—	—	—	—
—	—	—	13.00	—	—	—	6.50	—	6.50	—	—	—	—

\*5917—73% fine.  
 \*5925—71% fine.  
 \*5927—70% fine.  
 \*5932—71% fine.  
 \*5943—78% fine.  
 \*5944—73% fine.  
 \*5947—76% fine.  
 \*5959—75% fine.  
 \*5960—71% fine.

\*5978—68% fine.  
 \*5969—70% fine.  
 \*5970—71% fine.  
 \*5971—73% fine.  
 \*5981—73% fine.  
 \*5986—73% fine.  
 \*5992—70% fine.  
 \*6034—71% fine.  
 \*5753—78% fine.

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**Los Angeles Fertilizer Co.,  
Los Angeles, Cal.**

5624	Fruit Grower -----	Sierra Madre Lamanda Cit. Assn., Lamanda Park -----	23.77
	Guaranteed -----		22.16
5956*	Tankage -----	McNally Ranch, La Mirada-----	33.82
5976*	Tankage -----	McNally Ranch, La Mirada-----	35.39
5998*	Tankage -----	McNally Ranch, La Mirada-----	32.85
	Guaranteed -----		33.54

**Mountain Copper Co.,  
San Francisco, Cal.**

5615	3-10-2 -----	Union Com. Co., Santa Barbara-----	23.37
	Guaranteed -----		22.36
5676	Special -----	Anaheim Frt. Assn., Anaheim-----	24.07
	Guaranteed -----		23.84
5687	Special 4-13.5-4 -----	Anaheim, Frt. Assn., Anaheim-----	31.69
	Guaranteed -----		30.57
5711*	Special 5-15-5 -----	Tustin Lemon Assn., Tustin-----	41.45
	Guaranteed -----		38.60
5553	Superphosphate -----	Redlands Frt. Assn., Redlands-----	17.63
5620	Superphosphate -----	S. W. McCulloch, Fullerton-----	16.56
	Guaranteed -----		16.45
5667*	Tankage -----	Santiago Orange Grs. Assn., Orange-----	36.22
	Guaranteed -----		36.87

**Nitrate Agencies Co.,  
Los Angeles, Cal.**

5564	Nitrate of Soda-----	Sparr Fruit Co., Corona-----	48.64
5597	Nitrate of Soda-----	Sparr Fruit Co., Glendale-----	47.64
5602	Nitrate of Soda-----	Sparr Fruit Co., Fillmore-----	47.83
	Guaranteed -----		46.80
5604*	Sulfate of Potash-----	Sparr Fruit Co., Fillmore-----	----

**Oakland Meat & Packing Co.,  
Oakland, Cal.**

5995*	Tankage -----	C. J. Merryfield, Riverside-----	44.23
	Guaranteed -----		44.84

**Pacific Bone, Coal and Fertilizing Co., San Francisco, Cal.**

5785	Bat Guano -----	Robert E. Smith, Azusa-----	----
5830	Bat Guano -----	Robert Walker et al., Covina-----	----
5878	Bat Guano -----	E. A. Cooper et al., Covina-----	----
6038	Bat Guano -----	G. I. Lytle, Covina-----	----
	Sold on Station Analysis.		
5789	Blood -----	C. L. Clock, Redlands-----	55.40
5942	Blood -----	Stewart Cit. Assn., Upland-----	64.38
	Guaranteed -----		64.48
6005	Blood -----	D. Eyman Huff, Santa Ana-----	----
	Sold on Station Analysis.		

\*5956—66% fine.

\*5976—61% fine.

\*5998—68% fine.

\*5667—74% fine.

\*5711—Bottle broken. Sample possibly invalidated.

Laboratory Number

	POUNDS PER HUNDRED.											
	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN				POTASH			CHLORIN
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total	
5624	5.42	3.28	8.70	-----	0.60	-----	2.46	-----	3.06	2.80	2.80	0.82
----	6.00	2.00	8.00	Bn, Super T.	0.75	0.60	1.65	Bl, Bn, T	3.00	3.00	3.00	-----
5956	-----	-----	14.10	-----	-----	-----	5.38	-----	5.38	-----	-----	-----
5976	-----	-----	14.20	-----	-----	-----	5.72	-----	5.72	-----	-----	-----
5998	-----	-----	14.95	-----	-----	-----	5.02	-----	5.02	-----	-----	-----
----	-----	-----	14.50	-----	-----	-----	5.25	-----	5.25	-----	-----	-----
5615	10.24	0.36	10.60	-----	1.82	-----	1.41	-----	3.23	-----	1.61	1.17
----	10.00	0.25	10.25	Super	2.00	-----	1.00	Bl	3.00	2.00	2.00	-----
5676	14.50	0.40	14.90	-----	-----	-----	-----	-----	-----	8.68	8.68	-----
----	14.00	0.25	14.25	Super	-----	-----	-----	-----	-----	9.00	9.00	-----
5687	10.90	3.00	13.90	-----	1.97	1.02	1.14	-----	4.13	4.15	4.15	-----
----	10.00	3.50	13.50	Bn, Super	2.00	1.00	1.00	Bl	4.00	4.00	4.00	-----
5711	-----	-----	16.35	-----	-----	-----	5.43	-----	5.43	4.99	4.99	-----
----	-----	-----	15.00	Bn	-----	-----	5.00	Bl, Bn	5.00	5.00	5.00	-----
5553	18.76	0.34	19.10	-----	-----	-----	-----	-----	-----	-----	-----	-----
5620	17.62	0.28	17.90	-----	-----	-----	-----	-----	-----	-----	-----	-----
----	17.50	0.25	17.75	-----	-----	-----	-----	-----	-----	-----	-----	-----
5667	-----	-----	11.20	-----	-----	-----	6.40	-----	6.40	-----	-----	-----
----	-----	-----	11.00	-----	-----	-----	6.58	-----	6.58	-----	-----	-----
5564	-----	-----	-----	-----	15.59	-----	-----	-----	15.59	-----	-----	-----
5597	-----	-----	-----	-----	15.27	-----	-----	-----	15.27	-----	-----	-----
5602	-----	-----	-----	-----	15.33	-----	-----	-----	15.33	-----	-----	-----
----	-----	-----	-----	-----	15.00	-----	-----	-----	15.00	-----	-----	-----
5604	-----	-----	-----	-----	-----	-----	-----	-----	-----	46.96	46.96	2.68
5995	-----	-----	8.75	-----	Bn	-----	8.62	-----	8.62	-----	-----	-----
----	-----	-----	8.80	-----	-----	-----	8.75	Animal Matter	8.75	-----	-----	-----
5785	-----	-----	4.25	-----	0.80	2.34	6.40	-----	9.54	-----	1.45	-----
5830	-----	-----	5.50	-----	0.37	1.40	6.90	-----	8.67	-----	2.46	-----
5878	-----	-----	2.60	-----	0.75	-----	9.93	-----	10.68	-----	1.46	-----
6038	-----	-----	6.00	-----	1.50	1.15	3.76	-----	6.41	-----	2.83	-----
5789	-----	-----	-----	-----	-----	-----	11.17	-----	11.17	-----	-----	-----
5942	-----	-----	-----	-----	-----	-----	12.98	-----	12.98	-----	-----	-----
----	-----	-----	-----	-----	-----	-----	13.00	-----	13.00	-----	-----	-----
6005	-----	-----	-----	-----	-----	-----	13.58	-----	13.58	-----	-----	-----

\*5604—No guaranteed analysis. In violation of terms of California Fertilizer Act.

\*5995—78% fine.

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.

## Pacific Bone, Coal and Fertilizing Co.—Continued.

6012	Blood	E. F. Goff, Claremont	65.52
	Guaranteed		66.12
5588*	Bone Meal	E. A. Zumbro, Riverside	37.31
5589*	Bone Meal	Orange Hts. Frt. Assn., Corona	37.27
5616*	Bone Meal	Miss J. L. Poage, Azusa	38.02
	Guaranteed		35.40
5513*	Bone Meal	F. D. Parker, San Fernando	35.65
5514*	Bone Meal	F. D. Parker, San Fernando	35.52
5515*	Bone Meal	F. D. Parker, San Fernando	35.38
	Guaranteed		37.81
5489*	Bone Meal	Bloomington Frt. Assn., Bloomington	35.66
	Guaranteed		37.41
6045*	Bone Meal	Orange Hts. Frt. Assn., Corona	36.96
	Guaranteed		31.90
5872	Special No. 593	E. F. C. Klokke Estate, Los Angeles	26.28
	Guaranteed		27.00
5601	Special Nursery Stock	Chas. S. Johnson, Piru	26.44
	Guaranteed		24.83
5608	Sulfate of Ammonia	Limoneria Co., Santa Paula	64.43
5839	Sulfate of Ammonia	A. F. Call Estate, Corona	64.18
5870	Sulfate of Ammonia	W. H. Jameson, Corona	64.18
	Guaranteed		64.37
5549	Sulfate of Ammonia	McNally Ranch, La Mirada	64.81
	Guaranteed		64.56
5621	Sulfate of Potash	S. W. McCulloch, Fullerton	57.72
	Guaranteed		55.68
5622	Superphosphate	W. H. Key, Fullerton	16.79
	Guaranteed		15.98
5744*	Tankage	Call Lemon Assn., Corona	43.57
5748*	Tankage	Call Estate, Corona	44.51
5749*	Tankage	Bloomington Frt. Assn., Bloomington	43.36
5751*	Tankage	Call Estate, Corona	42.88
5752*	Tankage	Bloomington Frt. Assn., Bloomington	43.20
6003*	Tankage	San Jacinto Land Co., Riverside	39.64
	Guaranteed		42.40
5490*	Tankage	Bloomington Frt. Assn., Bloomington	40.71
5496*	Tankage	Bloomington Frt. Assn., Bloomington	40.92
	Guaranteed		40.96
5787*	Tankage	Bloomington Frt. Assn., Bloomington	42.09
6004*	Tankage	San Jacinto Land Co., Riverside	41.33
	Guaranteed		41.70
5491*	Tankage	Bloomington Frt. Assn., Bloomington	36.04
	Guaranteed		37.20
5867*	Tankage	Rialto Orange-Lemon Assn., Rialto	38.79
	Guaranteed		38.15

\*5588—53% fine.

\*5589—53% fine.

\*5616—50% fine.

\*5513—46% fine.

\*5514—46% fine.

\*5315—51% fine.

\*5489—49% fine.

\*6045—62% fine.

\*5744—85% fine.

\*5748—86% fine.

Laboratory Number

	POUNDS PER HUNDRED.											
	PHOSPHORIC ACID			NITROGEN				POTASH			CHLORIN	
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total	
6012	—	—	—	—	—	—	13.21	—	13.21	—	—	
—	—	—	—	—	—	—	13.33	—	13.33	—	—	
5588	—	—	22.00	—	—	—	3.98	—	3.98	—	—	
5589	—	—	22.00	—	—	—	3.97	—	3.97	—	—	
5616	—	—	22.20	—	—	—	4.10	—	4.10	—	—	
—	—	—	21.00	—	—	—	3.75	—	3.75	—	—	
5513	—	—	20.40	—	—	—	3.93	—	3.93	—	—	
5514	—	—	20.50	—	—	—	3.88	—	3.88	—	—	
5515	—	—	20.20	—	—	—	3.91	—	3.91	—	—	
—	—	—	22.50	—	—	—	3.99	—	3.99	—	—	
5489	—	—	20.90	—	—	—	3.83	—	3.83	—	—	
—	—	—	22.50	—	—	—	3.90	—	3.90	—	—	
6045	—	—	24.00	—	—	—	3.49	—	3.49	—	—	
—	—	—	22.00	—	—	—	2.75	—	2.75	—	—	
5872	5.67	3.08	9.75	—	1.42	0.69	1.95	—	4.06	2.01	2.01	0.80
—	8.00	2.00	10.00	Bn, Super	1.50	—	2.50	Bl, Bn, T	4.00	2.00	2.00	—
5601	9.43	1.22	10.65	—	2.12	0.80	1.20	—	4.12	2.12	2.12	0.60
—	9.00	1.00	10.00	Bn, Super	2.35	0.75	1.00	Bl, Bn, T	4.10	1.50	1.50	—
5608	—	—	—	—	—	20.52	—	—	20.52	—	—	
5839	—	—	—	—	—	20.44	—	—	20.44	—	—	
5870	—	—	—	—	—	20.44	—	—	20.44	—	—	
—	—	—	—	—	—	20.50	—	—	20.50	—	—	
5549	—	—	—	—	—	20.64	—	—	20.64	—	—	
—	—	—	—	—	—	20.56	—	—	20.56	—	—	
5621	—	—	—	—	—	—	—	—	—	49.76	49.76	2.50
—	—	—	—	—	—	—	—	—	—	48.00	48.00	—
5622	17.86	0.24	18.10	—	—	—	—	—	—	—	—	—
—	17.00	—	—	—	—	—	—	—	—	—	—	—
5744	—	—	9.55	—	—	—	8.34	—	8.34	—	—	—
5748	—	—	9.75	—	—	—	8.52	—	8.52	—	—	—
5749	—	—	9.25	—	—	—	8.34	—	8.34	—	—	—
5751	—	—	9.20	—	—	—	8.24	—	8.24	—	—	—
5752	—	—	9.10	—	—	—	8.33	—	8.33	—	—	—
6003	—	—	10.20	—	—	—	7.34	—	7.34	—	—	—
—	—	—	10.00	—	—	—	8.00	—	8.00	—	—	—
5490	—	—	8.15	—	—	—	7.92	—	7.92	—	—	—
5496	—	—	9.35	—	—	—	7.77	—	7.77	—	—	—
—	—	—	8.00	—	—	—	8.00	—	8.00	—	—	—
5787	—	—	6.45	—	—	—	8.51	—	8.51	—	—	—
6004	—	—	6.80	—	—	—	8.28	—	8.28	—	—	—
—	—	—	7.50	—	—	—	8.25	—	8.25	—	—	—
5491	—	—	13.20	—	—	—	6.03	—	6.03	—	—	—
—	—	—	15.00	—	—	—	6.00	—	6.00	—	—	—
5867	—	—	9.45	—	—	—	7.27	—	7.27	—	—	—
—	—	—	9.60	—	—	—	7.10	—	7.10	—	—	—

\*5749—86% fine.

\*5751—87% fine.

\*5752—87% fine.

\*6003—84% fine.

\*5490—82% fine.

\*5496—83% fine.

\*5787—67% fine.

\*6004—66% fine.

\*5491—86% fine.

\*5867—81% fine. Sample decomposing.

Laboratory Number

	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.	FROM WHOM OBTAINED.	Value per Ton at Station Prices.
	<b>Pacific Bone, Coal and Fertilizer Co.—Continued.</b>		
5972*	Tankage ----- <i>Sold on Station Analysis.</i>	F. D. Parker, San Fernando-----	
6002*	Tankage ----- <i>Guaranteed</i>	R. H. Wilkinson, Los Angeles-----	36.14 38.39
	<b>Pacific Coast Beef and Provision Co., Los Angeles, Cal.</b>		
5827*	Tankage ----- <i>Sold on Station Analysis.</i>	Orange Hts. Frt. Assn., Corona-----	
	<b>Pacific Guano and Fertilizer Co., San Francisco, Cal.</b>		
5642	Blood ----- <i>Guaranteed</i>	B. S. Casey, Rialto-----	59.92 59.52
5599	Special ----- <i>Guaranteed</i>	Sparr Fruit Co., Glendale-----	28.15 28.27
5598	Superphosphate ----- <i>Guaranteed</i>	Sparr Fruit Co., Glendale-----	21.51 18.80
5603	Superphosphate, Cresco ----- <i>Guaranteed</i>	Sparr Fruit Co., Fillmore-----	17.00 15.98
5823*	Tankage -----	Rialto Orange Co., Rialto-----	36.49
5824*	Tankage -----	Redmond Ranch Co., Rialto-----	36.71
5847*	Tankage -----	L. M. Bemis et al., Rialto-----	36.66
6016*	Tankage ----- <i>Guaranteed</i>	F. W. Jonas, Los Angeles-----	36.73 36.40
	<b>Pacific Wood and Coal Co., San Diego, Cal.</b>		
5733	Nitrate of Soda ----- <i>Guaranteed</i>	Company's Warehouse -----	46.52 46.80
5732	Sulphate of Potash ----- <i>Guaranteed</i>	Company's Warehouse -----	58.60 55.68
	<b>Redlands Fruit Assn., Redlands, Cal.</b>		
5552	Nitrate of Soda ----- <i>Guaranteed</i>	Company's Warehouse -----	47.83 46.80
	<b>San Antonio Meat Co., Pomona, Cal.</b>		
5493*	Tankage ----- <i>Guaranteed</i>	F. H. Harwood, San Dimas-----	44.07 40.96
5967*	Tankage ----- <i>Sold on Station Analysis.</i>	F. H. Harwood, San Dimas-----	

\*5972—65% fine.

\*5823—70% fine.

\*6002—76% fine.

\*5824—67% fine.

\*5827—73% fine.

## Laboratory Number

	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN			POTASH		
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate
5972	---	---	6.25	-----	---	---	8.08	-----	8.08	---
6002	---	---	13.90	-----	---	---	5.94	-----	5.94	---
---	---	---	15.49	-----	---	---	6.19	-----	6.19	---
5827	---	---	8.90	-----	---	---	9.22	-----	9.22	---
5642	---	---	---	-----	---	---	12.08	-----	12.08	---
---	---	---	---	-----	---	---	12.00	-----	12.00	---
5599	10.21	0.74	10.95	-----	2.50	---	1.35	-----	3.85	3.93
---	10.00	0.50	10.50	Bn, G, Super	2.67	---	1.33	Bl, Bn, Fs, G, T	4.00	4.00
5598	22.88	0.82	23.70	-----	---	---	-----	-----	-----	-----
---	20.00	1.00	21.00	-----	---	---	-----	-----	-----	-----
5603	18.08	0.92	19.00	-----	---	---	-----	-----	-----	-----
---	17.00	1.00	18.00	-----	---	---	-----	-----	-----	-----
5823	---	---	21.10	-----	---	---	4.84	-----	4.84	-----
5824	---	---	19.10	-----	---	---	5.22	-----	5.22	-----
5847	---	---	19.70	-----	---	---	5.11	-----	5.11	-----
6016	---	---	19.30	-----	---	---	5.19	-----	5.19	-----
---	---	---	20.00	-----	---	---	5.00	-----	5.00	-----
5733	---	---	---	-----	14.91	---	-----	-----	14.91	---
5732	---	---	---	-----	15.00	---	-----	-----	15.00	---
---	---	---	---	-----	---	---	-----	-----	50.52	50.52
---	---	---	---	-----	---	---	-----	-----	48.00	48.00
5552	---	---	---	-----	15.33	---	-----	-----	15.33	---
---	---	---	---	-----	15.00	---	-----	-----	15.00	---
5493	---	---	9.45	-----	---	---	8.47	-----	8.47	---
---	---	---	8.00	-----	---	---	8.00	-----	8.00	---
5967	---	---	9.60	-----	---	---	7.80	-----	7.80	---

\*5847—64% fine.  
\*6016—89% fine.

\*5493—69% fine.  
\*5967—64% fine.

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**Standard Fertilizer Co.,  
Los Angeles, Cal.**

5550	Special -----	Manufacturers' Warehouse -----	16.87
	Guaranteed -----		19.51

5551	Nitrate of Soda-----	Manufacturers' Warehouse -----	47.74
	Guaranteed -----		46.80

**Swift & Company,  
Chicago, Ill.**

5793	Blood -----	G. W. Duley, Upland-----	65.12
	Guaranteed -----		65.72
5578	"L" -----	G. W. Duley, Upland-----	37.13
	Guaranteed -----		35.54
5778*	Tankage, Diamond E-----	G. W. Duley, Upland-----	34.11
	Guaranteed -----		34.60
5794*	Tankage -----	G. W. Duley, Upland-----	45.14
5964*	Tankage -----	F. G. Bush, Ontario-----	42.83
	Guaranteed -----		43.20

**United States Phosphate Co.,  
Los Angeles, Cal.**

5783*	Phosphate Rock -----	Chas. H. Low, Riverside-----	----
	Guaranteed -----		----
5743*	Phosphate Rock -----	G. N. Hamilton, Claremont-----	----
	Guaranteed -----		----
5701	Phosphate Rock, Shield Brand	Company's Warehouse, Los Angeles-----	----
	Guaranteed -----		----

**Union Fertilizer Company,  
Los Angeles, Cal.**

5557	Fruiting -----	E. E. Cole, Redlands-----	23.57
5565	Fruiting -----	E. J. Generaux, Corona-----	22.83
5596	Fruiting -----	H. C. Lash, Rialto-----	24.83
5668	Fruiting -----	Geo. Settle, Anaheim-----	24.12
5679	Fruiting -----	Geo. Settle, Anaheim-----	23.45
5729	Fruiting -----	T. T. Franklin, Escondido-----	22.89
5761	Fruiting -----	G. R. Tyler, Pomona-----	24.71
5765	Fruiting -----	G. R. Tyler, Pomona-----	24.80
5885	Fruiting -----	Thomas Moffatt, Rialto-----	22.53
	Guaranteed -----		22.61

5709	Gardening -----	Geo. Settle, Anaheim-----	23.40
	Guaranteed -----		22.61

5559	Nursery -----	E. E. Cole, Redlands-----	31.47
5566	Nursery -----	E. J. Generaux, Corona-----	29.91
5669	Nursery -----	Geo. Settle, Anaheim-----	28.00
5680	Nursery -----	Geo. Settle, Anaheim-----	30.02
5730	Nursery -----	T. T. Franklin, Escondido-----	30.21
5762	Nursery -----	G. R. Tyler, Pomona-----	30.86
5764	Nursery -----	G. R. Tyler, Pomona-----	30.76
	Guaranteed -----		27.95

\*5778—73% fine.

\*5794—78% fine.

\*5964—58% fine. Contains hoof.

Laboratory Number	POUNDS PER HUNDRED.										CHLORIN	
	PHOSPHORIC ACID			NITROGEN				POTASH				
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total	
5550	5.50	1.78	7.28	Bat, G, Bn, Super, T	0.92	-----	-----	-----	2.70	-----	2.00	0.60
-----	4.75	-----	4.75	-----	-----	-----	-----	Bat, G Bl, Bn, T	3.00	-----	1.75	-----
5551	-----	15.30	15.30	-----	-----	-----	-----	-----	15.30	-----	-----	-----
-----	-----	15.00	15.00	-----	-----	-----	-----	-----	15.00	-----	-----	-----
5793	-----	-----	-----	-----	-----	-----	13.13	-----	13.13	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	13.25	-----	13.25	-----	-----	-----
5578	16.20	4.13	20.33	Bn	-----	-----	4.13	-----	4.13	3.77	3.77	-----
-----	16.00	3.75	19.75	-----	-----	-----	3.75	Bl, Bn	3.75	4.00	4.00	-----
5778	18.10	4.79	22.89	-----	-----	-----	4.79	-----	4.79	-----	-----	-----
-----	17.50	5.00	22.50	-----	-----	-----	5.00	-----	5.00	-----	-----	-----
5794	5.80	9.31	15.11	-----	-----	-----	9.31	-----	9.31	-----	-----	-----
5964	5.40	8.85	14.25	-----	-----	-----	8.85	-----	8.85	-----	-----	-----
-----	5.00	9.00	14.00	-----	-----	-----	9.00	-----	9.00	-----	-----	-----
5783	31.00	-----	31.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
-----	30.00	-----	30.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
5743	31.60	-----	31.60	-----	-----	-----	-----	-----	-----	-----	-----	-----
-----	31.50	-----	31.50	-----	-----	-----	-----	-----	-----	-----	-----	-----
5701	30.80	-----	30.80	-----	-----	-----	-----	-----	-----	-----	-----	-----
-----	31.00	-----	31.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
5557	7.42	1.88	9.30	-----	1.35	0.30	1.50	-----	3.15	-----	2.97	1.12
5565	6.55	1.20	7.75	-----	0.90	0.33	1.87	-----	3.10	-----	3.26	1.32
5596	6.94	2.36	9.30	-----	1.29	0.54	1.49	-----	3.32	3.61	3.61	0.80
5668	6.54	2.66	9.20	-----	1.33	0.57	1.37	-----	3.27	-----	3.34	0.67
5679	7.10	2.10	9.20	-----	1.41	0.52	1.19	-----	3.12	-----	3.37	0.92
5729	7.02	1.88	8.90	-----	1.22	0.35	1.40	-----	2.97	-----	3.29	-----
5761	7.21	2.24	9.45	-----	1.40	0.48	1.44	-----	3.32	-----	3.44	0.85
5765	7.26	2.14	9.40	-----	1.15	0.49	1.68	-----	3.32	-----	3.30	0.97
5885	6.35	1.30	7.65	-----	0.36	0.94	1.83	-----	3.13	-----	3.03	0.87
-----	7.00	1.50	8.50	Bn, G, Super, T	0.75	0.60	1.65	Bn, G, T	3.00	-----	3.00	-----
5709	6.23	1.22	7.45	-----	0.79	0.33	2.18	-----	3.30	-----	3.11	-----
-----	7.00	1.50	8.50	Bn, G, Super, T	0.75	0.60	1.65	Bn, G, T	3.00	-----	3.00	-----
5559	6.19	2.26	8.45	-----	1.90	0.38	3.31	-----	5.59	-----	1.88	0.97
5566	6.08	2.12	8.20	-----	1.65	0.25	3.22	-----	5.12	-----	2.09	1.72
5669	5.50	1.40	6.90	-----	1.02	0.68	3.20	-----	4.90	-----	2.06	0.90
5680	5.84	2.06	7.90	-----	1.54	0.41	3.28	-----	5.23	-----	2.06	0.75
5730	5.90	2.00	7.90	-----	2.03	1.15	2.32	-----	5.50	-----	2.54	0.95
5762	5.83	2.62	8.45	-----	1.77	-----	3.54	-----	5.31	-----	1.87	0.62
5764	5.86	1.84	7.70	-----	1.98	0.97	2.61	-----	5.56	-----	2.69	1.47
-----	6.00	1.50	7.50	Bn, G, Super, T	1.00	1.00	3.00	Bn, G, T	5.00	-----	1.50	-----

\*5783—70% fine through 100 mesh.

\*5743—80% fine through 100 mesh.

NAME AND ADDRESS OF MANU-  
FACTURER OR DEALER, AND  
NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.**Union Fertilizer Co.—Con-**  
**tinued.**

5710	Potato	Geo. Settle, Anaheim	31.47
	<i>Guaranteed</i>		30.78
5558	Special Fruiting	E. E. Cole, Redlands	30.12
5766	Special Fruiting	G. R. Tyler, Pomona	29.62
	<i>Guaranteed</i>		27.99
5612	Sulfate of Potash	H. C. Lash, Rialto	56.65
	<i>Guaranteed</i>		52.20

**Waterman Chemical Co.,**  
**Los Angeles, Cal.**

5742	Special Mixture No. 5	C. E. McLaughlin, Rialto	19.58
	<i>Guaranteed</i>		17.16
5741	Special Mixture No. 6	C. E. McLaughlin, Rialto	19.39
	<i>Guaranteed</i>		16.68

**Western Fertilizer Co.,**  
**San Francisco, Cal.**

5508*	Wizard	Aggeler & Musser Seed Co., Los A.	36.58
	<i>Guaranteed</i>		32.62

**Western Meat Company,**  
**San Francisco, Cal.**

5796	Blood	J. H. Reynolds, Redlands	64.43
6011	Blood	Mrs. O. F. Wright, Azusa	64.78
	<i>Guaranteed</i>		64.48
5530	Blood	J. H. Reynolds, Redlands	66.36
	<i>Guaranteed</i>		65.72
5898	Blood	H. D. Derwin, Upland	66.46
	<i>Guaranteed</i>		65.47
5632	Blood	W. M. Warren, Covina	67.31
5795	Blood	J. H. Reynolds, Redlands	66.32
	<i>Guaranteed</i>		66.96
5894	Blood	H. D. Derwin, Upland	68.35
5895	Blood	H. D. Derwin, Upland	69.24
	<i>Guaranteed</i>		70.33
5866	Blood	F. M. Reed, Riverside	70.58
	<i>Guaranteed</i>		71.51
5874	Blood	W. A. Jones et al., Azusa	70.38
	<i>Guaranteed</i>		71.27
5876	Blood	Irwin, Shupp et al., Covina	70.53
	<i>Guaranteed</i>		70.48
5990	Blood	So. Cal. State Hospital, Patton	69.74
	<i>Guaranteed</i>		70.63
6010	Blood	Mrs. O. F. Wright et al., Azusa	70.63
	<i>Guaranteed</i>		70.53

\*5508—No statement of derivation as required by California Fertilizer Act.

Laboratory Number	POUNDS PER HUNDRED.												CHLORIN Total
	PHOSPHORIC ACID				NITROGEN				POTASH				
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total		
5710	6.16	0.64	6.80	Bn, G, Super, T	0.70	0.42	2.60	Bn, G, T	3.72	8.97	8.97	0.65	
---	7.20	1.35	8.55		1.00	0.60	2.00		3.60	8.00	8.00	---	
5558	6.73	2.32	9.05	-----	1.24	0.34	2.89	-----	4.47	-----	3.73	0.85	
5766	7.01	2.54	9.55	-----	1.15	0.35	2.67	-----	4.17	-----	3.96	0.70	
---	8.00	1.50	9.50	Bn, G, Super, T	1.00	0.75	2.25	Bn, G, T	4.00	-----	3.50	---	
5612	-----	-----	-----	-----	-----	-----	-----	-----	-----	48.84	48.84	1.50	
---	-----	-----	-----	-----	-----	-----	-----	-----	-----	45.00	45.00	---	
5742	10.11	0.14	10.25	-----	-----	-----	0.78	-----	0.78	5.73	5.73	0.60	
---	9.00	0.50	9.50	Super	-----	-----	0.66	Grape Pomace	0.66	5.00	5.00	---	
5741	9.24	0.16	9.40	-----	-----	-----	0.87	-----	0.87	5.93	5.93	0.65	
---	8.50	0.50	9.00	Super	-----	-----	0.66	Grape Pomace	0.66	5.00	5.00	---	
5508	8.03	1.12	9.15	-----	3.40	-----	2.67	-----	6.07	5.16	5.16	---	
---	9.00	-----	-----	-----	6.00	-----	-----	-----	6.00	5.00	5.00	---	
5796	-----	-----	-----	-----	-----	-----	12.99	-----	12.99	-----	-----	-----	
6011	-----	-----	-----	-----	-----	-----	13.06	-----	13.06	-----	-----	-----	
---	-----	-----	-----	-----	-----	-----	13.00	-----	13.00	-----	-----	-----	
5530	-----	-----	-----	-----	-----	-----	13.38	-----	13.38	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	13.25	-----	13.25	-----	-----	-----	
5898	-----	-----	-----	-----	-----	-----	13.40	-----	13.40	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	13.20	-----	13.20	-----	-----	-----	
5632	-----	-----	-----	-----	-----	-----	13.57	-----	13.57	-----	-----	-----	
5795	-----	-----	-----	-----	-----	-----	13.37	-----	13.37	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	13.50	-----	13.50	-----	-----	-----	
5894	-----	-----	-----	-----	-----	-----	13.78	-----	13.78	-----	-----	-----	
5895	-----	-----	-----	-----	-----	-----	13.96	-----	13.96	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	14.18	-----	14.18	-----	-----	-----	
5866	-----	-----	-----	-----	-----	-----	14.23	-----	14.23	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	14.42	-----	14.42	-----	-----	-----	
5874	-----	-----	-----	-----	-----	-----	14.19	-----	14.19	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	14.37	-----	14.37	-----	-----	-----	
5876	-----	-----	-----	-----	-----	-----	14.22	-----	14.22	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	14.21	-----	14.21	-----	-----	-----	
5990	-----	-----	-----	-----	-----	-----	14.06	-----	14.06	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	14.24	-----	14.24	-----	-----	-----	
6010	-----	-----	-----	-----	-----	-----	14.24	-----	14.24	-----	-----	-----	
-----	-----	-----	-----	-----	-----	-----	14.22	-----	14.22	-----	-----	-----	

	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.	FROM WHOM OBTAINED.	Value per Ton at Station Prices.
<b>Western Meat Co.—Continued.</b>			
5877	Blood -----	Frank Chance, Glendora-----	70.33
5879	Blood ----- <i>Guaranteed</i> -----	Thomas Johnson et al., Charter Oak-----	70.08 71.08
5651	Blood ----- <i>Guaranteed</i> -----	W. M. Warren, Covina-----	66.56 69.44
5809	Blood ----- <i>Guaranteed</i> -----	Chas. H. Low, Riverside-----	67.01 68.20
5576*	Bone Meal, Diamond G-----	Byer & Sherwood, Upland-----	34.74
5664*	Bone Meal, Diamond G----- <i>Guaranteed</i> -----	Benchley Frt. Co., Fullerton-----	34.17 35.70
5635*	Bone Meal, Special-----	W. M. Warren, Covina-----	33.53
5996*	Bone Meal, Special----- <i>Guaranteed</i> -----	So. Cal. State Hospital, Patton-----	33.89 33.10
5567*	Bone Meal, Special----- <i>Guaranteed</i> -----	Byer & Sherwood, Upland-----	33.89 31.30
5665*	Bone Meal ----- <i>Guaranteed</i> -----	Benchley Frt. Co., Fullerton-----	34.10 31.34
5568	Diamond B ----- <i>Guaranteed</i> -----	Byer & Sherwood, Upland-----	28.57 26.70
5654	Diamond B ----- <i>Guaranteed</i> -----	Byer & Sherwood, Upland-----	27.17 27.15
5653	Diamond D ----- <i>Guaranteed</i> -----	Byer & Sherwood, Upland-----	27.46 24.52
5737	Putting Green ----- <i>Guaranteed</i> -----	Byer & Sherwood, Upland-----	26.70 29.09
5532	Special ----- <i>Guaranteed</i> -----	J. H. Reynolds, Redlands-----	27.39 27.64
5570	Special ----- <i>Guaranteed</i> -----	Byer & Sherwood, Upland-----	36.30 35.70
5571	Special ----- <i>Guaranteed</i> -----	Byer & Sherwood, Upland-----	35.26 31.24
5640	Special ----- <i>Guaranteed</i> -----	W. M. Warren, Covina-----	43.74 45.44
5797	Special ----- <i>Guaranteed</i> -----	J. H. Reynolds, Redlands-----	25.06 23.88
5978*	Special ----- <i>Guaranteed</i> -----	W. A. Veith, Fresno-----	32.30 25.10
5923*	Tankage -----	G. H. Wheeler, Rialto-----	43.26
5936*	Tankage ----- <i>Guaranteed</i> -----	C. H. Low, Riverside-----	42.79 44.24

\*5576—62% fine.

\*5664—69% fine.

\*5325—58% fine.

\*5996—65% fine.

\*5567—72% fine.

Laboratory Number	POUNDS PER HUNDRED.											
	PHOSPHORIC ACID				NITROGEN				POTASH			
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	Total	CHLORIN
5877	—	—	—	—	—	—	14.18	—	14.18	—	—	—
5879	—	—	—	—	—	—	14.13	—	14.13	—	—	—
—	—	—	—	—	—	—	14.33	—	14.33	—	—	—
5651	—	—	—	—	—	—	13.42	—	13.42	—	—	—
—	—	—	—	—	—	—	14.00	—	14.00	—	—	—
5809	—	—	—	—	—	—	13.51	—	13.51	—	—	—
—	—	—	—	—	—	—	13.75	—	13.75	—	—	—
5576	—	25.30	—	—	—	—	2.72	—	2.72	—	—	—
5664	—	21.00	—	—	—	—	3.47	—	3.47	—	—	—
—	—	25.00	—	—	—	—	3.00	—	3.00	—	—	—
5635	—	26.70	—	—	—	—	2.16	—	2.16	—	—	—
5996	—	27.00	—	—	—	—	2.18	—	2.18	—	—	—
—	—	27.00	—	—	—	—	2.00	—	2.00	—	—	—
5567	—	27.10	—	—	—	—	2.16	—	2.16	—	—	—
—	—	25.00	—	—	—	—	2.00	—	2.00	—	—	—
5665	—	24.10	—	—	—	—	2.82	—	2.82	—	—	—
—	—	27.00	—	—	—	—	1.60	—	1.60	—	—	—
5568	9.10	1.20	10.30	—	—	—	2.80	—	2.80	6.02	6.02	1.00
—	9.00	2.00	11.00	Bn, Super	—	—	2.50	Animal Matter	2.50	5.00	5.00	—
5654	6.40	4.00	10.40	—	—	—	2.45	—	2.45	6.06	6.06	0.65
—	9.00	2.50	11.50	Bn, Super	—	—	2.50	Animal Matter	2.50	5.00	5.00	—
5653	6.93	1.22	8.15	—	—	—	3.93	—	3.93	2.44	2.44	0.97
—	8.00	2.00	10.00	Bn, Super	—	—	3.00	Animal Matter	3.00	2.00	2.00	—
5737	—	—	10.60	—	—	0.47	2.53	—	3.00	3.92	3.92	0.85
—	—	—	11.00	Bn	—	1.50	2.50	Animal Matter	4.00	3.00	3.00	—
5532	7.84	0.96	8.80	—	0.69	0.39	3.06	—	4.14	2.27	2.27	0.70
—	8.00	2.00	10.00	Bn, Super	1.00	—	3.00	Animal Matter	4.00	2.00	2.00	—
5570	—	—	17.00	—	—	—	2.01	—	2.01	10.48	10.48	0.90
—	—	—	17.00	Bn, Super	—	—	2.00	Animal Matter	2.00	10.00	10.00	—
5571	8.21	3.54	11.75	—	—	—	4.29	—	4.29	—	5.01	1.37
—	—	—	10.00	Bn, Super	—	—	4.00	Animal Matter	4.00	4.00	4.00	—
5649	—	—	5.40	—	—	—	7.68	—	7.68	—	4.39	3.50
—	—	—	5.00	Bn, Super	—	—	8.25	Animal Matter	8.25	4.00	4.00	—
5797	—	—	9.20	—	—	—	3.02	—	3.02	3.01	3.01	0.65
—	—	—	8.00	Bn	—	—	3.00	Animal Matter	3.00	3.00	3.00	—
5978	—	—	16.50	—	—	—	1.28	—	1.28	10.19	10.19	0.72
—	—	—	15.00	Bn,	—	—	—	—	—	10.00	10.00	—
5923	—	—	7.65	—	—	—	8.58	—	8.58	—	—	—
5936	—	—	8.95	—	—	—	8.26	—	8.26	—	—	—
—	—	—	9.50	Animal Matter	—	—	8.50	Animal Matter	8.50	—	—	—

\*5665—69% fine.

\*5978—No nitrogen guaranteed on flag.

.99% 512—825\*  
.99% 512—825\*.99% 512—825\*  
.99% 512—825\*.99% 512—825\*  
.99% 512—825\*.99% 512—825\*  
.99% 512—825\*.99% 512—825\*  
.99% 512—825\*.99% 512—825\*  
.99% 512—825\*

NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.      FROM WHOM OBTAINED.

Value per Ton at Station Prices.

**Western Meat Co.—Continued.**

5500*	Tankage -----	H. D. Derwin, Upland-----	42.31
5501*	Tankage -----	H. S. Derwin, Upland-----	41.88
	Guaranteed -----		41.52
5534*	Tankage -----	Corona Lemon Co., Corona-----	42.35
5535*	Tankage -----	Corona Lemon Co., Corona-----	40.88
	Guaranteed -----		41.68
5558*	Tankage -----	Bloomington Frt. Assn., Bloomington	45.00
5559*	Tankage -----	Bloomington Frt. Assn., Bloomington	42.27
5890*	Tankage -----	Fontana Co., Rialto-----	41.26
5920*	Tankage -----	Fontana Co., Rialto-----	41.33
5921*	Tankage -----	Fontana Co., Rialto-----	42.37
5922*	Tankage -----	Fontana Co., Rialto-----	43.64
	Guaranteed -----		42.42
5529*	Tankage, Diamond E-----	J. H. Reynolds, Redlands-----	35.74
5577*	Tankage, Diamond E-----	Byer & Sherwood, Upland-----	36.22
5756*	Tankage, Diamond E-----	C. S. Lombard, Redlands-----	34.25
5933*	Tankage, Diamond E-----	J. S. Grepe, East Highlands-----	37.88
	Guaranteed -----		34.96
5655*	Tankage -----	Byer & Sherwood, Upland-----	34.98
	Guaranteed -----		35.19
5525*	Tankage, Diamond I-----	J. H. Reynolds, Redlands-----	33.92
5656*	Tankage, Diamond I-----	Byer & Sherwood, Upland-----	35.10
	Guaranteed -----		33.44
5526*	Tankage -----	J. H. Reynolds, Redlands-----	42.32
5527*	Tankage -----	J. H. Reynolds, Redlands-----	41.24
5784*	Tankage -----	Daniel Smiley, Redlands-----	41.63
5810*	Tankage -----	J. D. Boley, Highland-----	42.57
5924*	Tankage -----	Joseph Ingersoll, Rialto-----	41.86
	Guaranteed -----		42.40
5633*	Tankage -----	W. M. Warren, Covina-----	42.41
5735*	Tankage -----	H. D. Derwin, Upland-----	40.02
5736*	Tankage -----	H. D. Derwin, Upland-----	37.89
5820*	Tankage -----	Mrs. L. H. McDonald, Alhambra-----	40.88
5826*	Tankage -----	Bloomington Frt. Assn., Bloomington	42.10
5831*	Tankage -----	I. W. Haskell, Sr., Azusa-----	41.97
5862*	Tankage -----	C. C. Chapman, Fullerton-----	41.94
5875*	Tankage -----	W. W. Heth et al., Azusa-----	41.73
5965*	Tankage -----	Fontana Co., Fontana-----	39.65
5989*	Tankage -----	Chas. Metsinger, Cucamonga-----	41.06
	Guaranteed -----		40.96
5899*	Tankage -----	W. L. Cook, Ontario-----	35.99
5958*	Tankage -----	W. F. Radis, Los Angeles-----	35.15
	Guaranteed -----		35.04
5572*	Tankage -----	Byer & Sherwood, Upland-----	44.52
5662*	Tankage -----	Byer & Sherwood, Upland-----	43.66
	Guaranteed -----		44.00

\*5500—84% fine.

\*5922—76% fine.

\*5501—83% fine.

\*5529—85% fine.

\*5834—83% fine.

\*5577—76% fine.

\*5853—84% fine.

\*5756—84% fine.

\*5858—81% fine.

\*5933—71% fine.

\*5859—82% fine.

\*5655—78% fine.

\*5890—76% fine.

\*5525—81% fine.

\*5923—83% fine.

\*5656—67% fine.

\*5921—76% fine.

\*5526—81% fine.

Laboratory Number	POUNDS PER HUNDRED.						Total	From sulfate	Total	CHLORIN
	PHOSPHORIC ACID		NITROGEN			POTASH				
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from		
5500	-----	-----	7.00	-----	-----	-----	8.47	-----	8.47	-----
5501	-----	-----	6.35	-----	-----	-----	8.48	-----	8.48	-----
-----	-----	-----	8.90	-----	-----	-----	7.98	-----	7.98	-----
5854	-----	-----	9.75	-----	-----	-----	8.03	-----	8.03	-----
5855	-----	-----	9.90	-----	-----	-----	7.67	-----	7.67	-----
-----	-----	-----	9.00	-----	-----	-----	8.00	-----	8.00	-----
5858	-----	-----	8.05	-----	-----	-----	8.91	-----	8.91	-----
5859	-----	-----	8.05	-----	-----	-----	8.29	-----	8.29	-----
5890	-----	-----	8.30	-----	-----	-----	8.02	-----	8.02	-----
5920	-----	-----	9.00	-----	-----	-----	7.92	-----	7.92	-----
5921	-----	-----	9.10	-----	-----	-----	8.14	-----	8.14	-----
5922	-----	-----	9.15	-----	-----	-----	8.42	-----	8.42	-----
-----	-----	-----	8.50	-----	-----	-----	8.25	-----	8.25	-----
5529	-----	-----	17.50	-----	-----	-----	5.26	-----	5.26	-----
5577	-----	-----	17.30	-----	-----	-----	5.40	-----	5.40	-----
5756	-----	-----	18.30	-----	-----	-----	4.79	-----	4.79	-----
5933	-----	-----	17.50	-----	-----	-----	5.29	-----	5.29	-----
-----	-----	-----	18.00	-----	-----	-----	5.00	-----	5.00	-----
5655	-----	-----	16.25	-----	-----	-----	5.29	-----	5.29	-----
-----	-----	-----	18.32	-----	-----	-----	5.00	-----	5.00	-----
5525	-----	-----	13.75	-----	-----	-----	5.46	-----	5.46	-----
5656	-----	-----	13.30	-----	-----	-----	5.80	-----	5.80	-----
-----	-----	-----	13.75	-----	-----	-----	5.35	-----	5.35	-----
5526	-----	-----	10.80	-----	-----	-----	7.85	-----	7.85	-----
5527	-----	-----	8.70	-----	-----	-----	7.95	-----	7.95	-----
5784	-----	-----	10.40	-----	-----	-----	7.76	-----	7.76	-----
5810	-----	-----	10.60	-----	-----	-----	7.94	-----	7.94	-----
5924	-----	-----	10.60	-----	-----	-----	7.78	-----	7.78	-----
-----	-----	-----	10.00	-----	-----	-----	8.00	-----	8.00	-----
5633	-----	-----	9.40	-----	-----	-----	8.10	-----	8.10	-----
5735	-----	-----	9.20	-----	-----	-----	7.59	-----	7.59	-----
5736	-----	-----	10.15	-----	-----	-----	6.95	-----	6.95	-----
5820	-----	-----	9.30	-----	-----	-----	7.77	-----	7.77	-----
5826	-----	-----	9.10	-----	-----	-----	8.08	-----	8.08	-----
5831	-----	-----	9.40	-----	-----	-----	8.00	-----	8.00	-----
5862	-----	-----	7.95	-----	-----	-----	8.23	-----	8.23	-----
5875	-----	-----	7.85	-----	-----	-----	8.20	-----	8.20	-----
5965	-----	-----	9.60	-----	-----	-----	7.44	-----	7.44	-----
5989	-----	-----	7.40	-----	-----	-----	8.12	-----	8.12	-----
-----	-----	-----	8.00	-----	-----	-----	8.00	-----	8.00	-----
5899	-----	-----	12.40	-----	-----	-----	6.15	-----	6.15	-----
5958	-----	-----	11.85	-----	-----	-----	6.05	-----	6.05	-----
-----	-----	-----	12.00	-----	-----	-----	6.00	-----	6.00	-----
5572	-----	-----	10.50	-----	-----	-----	8.40	-----	8.40	-----
5662	-----	-----	10.40	-----	-----	-----	8.22	-----	8.22	-----
-----	-----	-----	11.00	-----	-----	-----	8.20	-----	8.20	-----

\*5327—81% fine.

\*5784—83% fine.

\*5810—80% fine.

\*5924—80% fine.

\*5633—86% fine.

\*5735—86% fine.

\*5736—87% fine.

\*5820—81% fine.

\*5826—80% fine.

\*5831—76% fine.

\*5862—80% fine.

\*5875—81% fine.

\*5965—75% fine.

\*5989—78% fine.

\*5899—75% fine.

\*5958—78% fine.

\*5572—78% fine.

\*5662—75% fine.

## NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND.

## FROM WHOM OBTAINED.

Value per Ton at  
Station Prices.

## Western Meat Co.—Continued.

5650*	Tankage	W. M. Warren, Covina	43.92
5798*	Tankage	J. H. Reynolds, Redlands	45.52
	Guaranteed		45.76
5531*	Tankage	J. H. Reynolds, Redlands	43.52
	Guaranteed		44.03
5533*	Tankage	J. H. Reynolds, Redlands	38.26
	Guaranteed		36.97
5569*	Tankage	Byer & Sherwood, Upland	34.91
	Guaranteed		37.20
5573*	Tankage	Byer & Sherwood, Upland	38.78
	Guaranteed		38.00
5574*	Tankage	Byer & Sherwood, Upland	43.44
	Guaranteed		43.84
5575*	Tankage	Byer & Sherwood, Upland	37.09
	Guaranteed		34.76
5634*	Tankage Special	W. M. Warren, Covina	33.14
	Guaranteed		33.16
5663*	Tankage	Benchley Frt. Co., Fullerton	43.56
	Guaranteed		41.38
5825*	Tankage Special	C. F. Thoms, Rialto	38.57
	Guaranteed		38.64
5834*	Tankage Special	J. C. Wright, Azusa	33.12
	Guaranteed		33.31
5860*	Tankage Special	C. Huber, Los Angeles	34.42
	Guaranteed		32.80
5871*	Tankage	Orange Hts. Frt. Assn., Corona	44.35
	Guaranteed		43.96
5955*	Tankage	C. C. Chapman, Fullerton	42.75
	Guaranteed		43.52
6018*	Tankage	Wm. M. Horton, Riverside	43.54
	Guaranteed		44.62
5528*		J. H. Reynolds, Redlands	42.94
	Guaranteed		41.00

5915*	Tankage	Chas. Lee et al., Azusa	
5945*	Tankage	W. R. Eichoff, Azusa	
5946*	Tankage	Azusa Cit. Assn., Azusa	

*Sold on Station Analysis.*

\*5650—82% fine.

\*5573—83% fine.

\*5798—71% fine.

\*5574—79% fine.

\*5531—78% fine.

\*5575—71% fine.

\*5533—76% fine.

\*5634—83% fine.

\*5569—79% fine.

\*5663—81% fine.

## POUNDS PER HUNDRED.

Laboratory Number	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN			POTASH			CHLORIN
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From sulfate	
5650	—	—	5.20	—	—	9.13	—	9.13	—	—	—
5798	—	—	5.90	—	—	9.38	—	9.38	—	—	—
			5.50	—	—	9.50	—	9.50	—	—	—
5531	—	—	11.55	—	—	8.00	—	8.00	—	—	—
			11.17	—	—	8.18	—	8.18	—	—	—
5533	—	—	9.50	—	—	7.14	—	7.14	—	—	—
			10.40	—	—	6.70	—	6.70	—	—	—
5569	—	—	11.45	—	—	6.06	—	6.06	—	—	—
			10.40	—	—	6.75	—	6.75	—	—	—
5573	—	—	8.15	—	—	7.48	—	7.48	—	—	—
			10.00	—	—	7.00	—	7.00	—	—	—
5574	—	—	11.45	—	—	8.00	—	8.00	—	—	—
			12.00	—	—	8.00	—	8.00	—	—	—
5575	—	—	6.90	—	—	7.30	—	7.30	—	—	—
			5.50	—	—	7.00	—	7.00	—	—	—
5634	—	—	14.25	—	—	5.20	—	5.20	—	—	—
			15.50	—	—	5.00	—	5.00	—	—	—
5663	—	—	9.35	—	—	8.37	—	8.37	—	—	—
			9.80	—	—	7.80	—	7.80	—	—	—
5825	—	—	16.90	—	—	6.00	—	6.00	—	—	—
			17.00	—	—	6.00	—	6.00	—	—	—
5834	—	—	15.50	—	—	4.99	—	4.99	—	—	—
			15.10	—	—	5.10	—	5.10	—	—	—
5860	—	—	14.80	—	—	5.40	—	5.40	—	—	—
			15.00	—	—	5.00	—	5.00	—	—	—
5871	—	—	8.25	—	—	8.73	—	8.73	—	—	—
			8.50	—	—	8.60	—	8.60	—	—	—
5955	—	—	8.35	—	—	8.35	—	8.35	—	—	—
			8.50	—	—	8.50	—	8.50	—	—	—
6018	—	—	8.40	—	—	8.52	—	8.52	—	—	—
			8.80	—	—	8.70	—	8.70	—	—	—
5528	—	—	9.40	—	—	8.22	—	8.22	—	—	—
			10.00	Bn, Super	—	7.70	Animal Matter	7.70	—	—	—
5915	—	—	10.20	—	—	8.16	—	8.16	—	—	—
5945	—	—	9.20	—	—	7.87	—	7.87	—	—	—
5946	—	—	9.25	—	—	8.12	—	8.12	—	—	—

\*5825—81% fine.

\*5834—91% fine.

\*5860—86% fine.

\*5871—81% fine.

\*5955—83% fine.

\*6018—81% fine.

\*5528—76% fine. No brand name.

\*5915—76% fine.

\*5945—74% fine.

\*5946—78% fine.

### Report of Analyses.

Available phosphoric acid is not determined in bone meal, tankage, and Thomas Phosphate Powder, unless requested. The fineness of these materials is determined, fine and medium bone being separated by a sieve of 50 meshes to the inch; tankage by a 25-mesh sieve; and Thomas Phosphate Powder by a 100-mesh sieve.

Nitrogen in ammonium salts will, in some cases, be found reported when nitrogen in this form is not guaranteed. In some of such cases this form of nitrogen is produced by conversion of organic nitrogen during process of manufacture, and is not to be considered a deviation from guaranty of materials used. Guanos carry more or less nitrogen in nitrates and ammonium salts, and when any appreciable quantity of guano is used the manufacturer should take into account the fact that some nitrogen will show as nitrates and ammonium salts. The failure to take this into consideration may perhaps account for the appearance of these forms of nitrogen in some samples in which only organic nitrogen was guaranteed.

The percentage of chlorin is given when it exceeds 0.50 per cent. It is a matter of only technical interest whether chlorin present is from muriate of potash, kainite, or from common salt that may be in some of the materials used. If a manufacturer uses sulfate of potash and uses a tankage with it containing a large amount of chlorin, from a practical standpoint he has lowered the grade of his fertilizer just as much as if he had used muriate of potash instead of sulfate of potash. Chlorin from all other sources is as objectionable as from muriate of potash. However, if muriate of potash is found when sulfate is guaranteed, the fact will be published.

The following abbreviations are used in the tables: Bl = blood, Bu = bone, Fs = fish, G = guano, H = hoof, Min. Phos. = mineral phosphate, Super = superphosphates, T = tankage, CSM = cotton seed meal.

Guarantees are entered in italics. Deficiencies greater than allowed by law are entered in bold type.